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The



CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3023
VOL. CXXVIII

JANUARY 15, 1938

Annual Subscription (with
Diary) 20/-. Single Copies 9d.

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SEND FOR TERMS



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Pure alkaloid and salts.

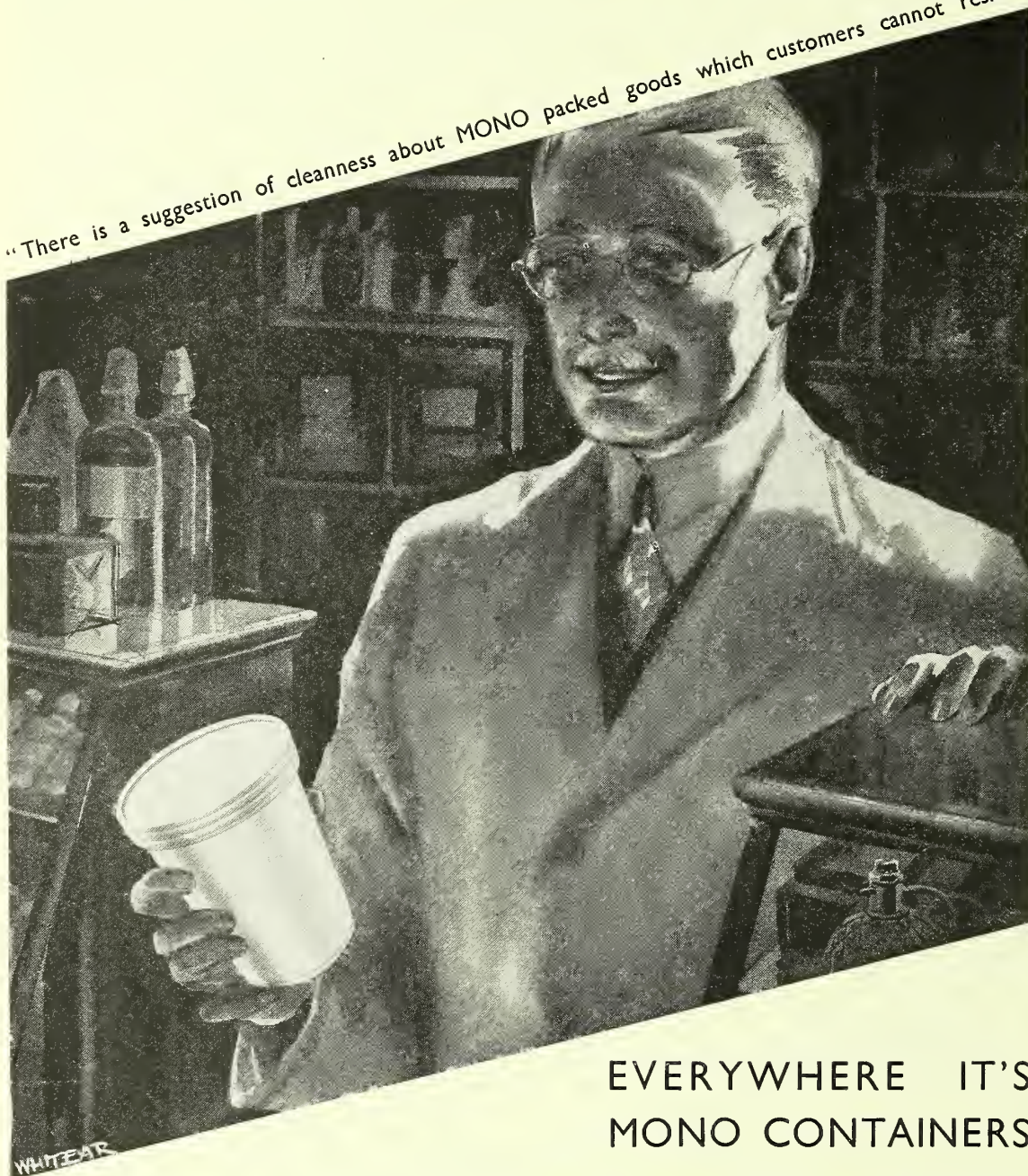
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"There is a suggestion of cleanness about MONO packed goods which customers cannot resist"



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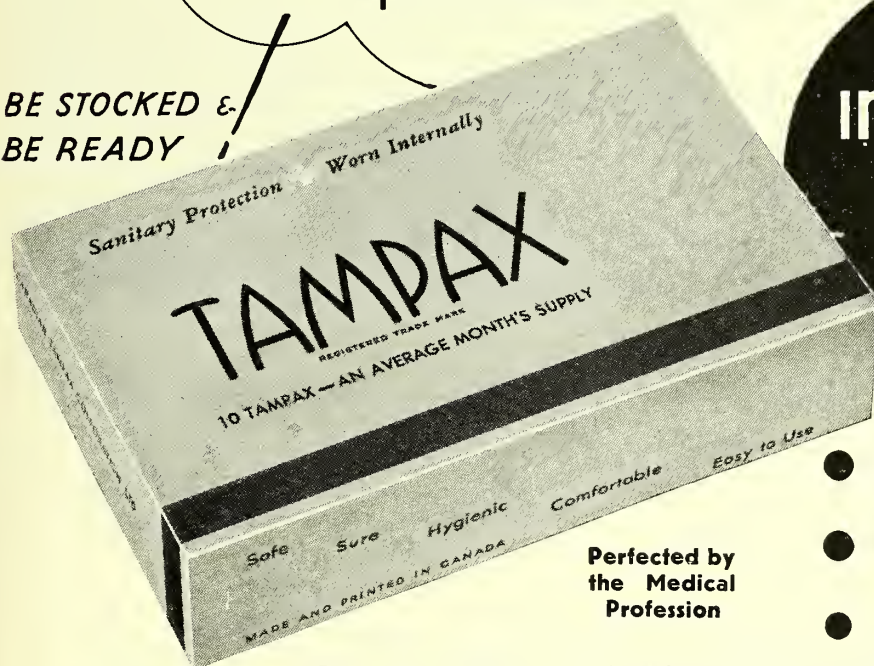
Why are Mono Containers welcomed by packers and public alike? What makes Mono dust-proof and germ-proof? Here are 5 all-important reasons:—Special white paper is made from pure spruce sulphite — double-wrapped side wall is sealed with durable waterproof vegetable adhesive — sturdy side seam is triple thickness — smooth top rim is four-ply with reinforced lid bead — screw lids are replaceable. The more you study Mono quality the more you will say "It must be Mono!"

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Every woman will be asking you for
TAMPAX

the **NEW** sanitary protection which
 solves every woman's eternal
 problem

BE STOCKED &
 BE READY



**WORN
 INTERNALLY**

**NO BELTS
 NO PADS
 NO PINS**

- **NEW** SECURITY
- **NEW** COMFORT
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Perfected by
 the Medical
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SOLVES EVERY WOMAN'S ETERNAL PROBLEM

TAMPAX National advertising is telling a wonderful story to women. Never before has interest in their *eternal* problem been so fired as by the offer of the perfect solution. Modern women hail with joy the comfort—freedom from embarrassment—safety—which Tampax assures. Be first in your district with the new Sanitary Protection which will make sales history. To display Tampax is to sell Tampax—at a sound profit.

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3. Tampax cannot disintegrate.
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Full size package	1/6	per doz.	13/6
Small "	"	1/-	" " 9/-

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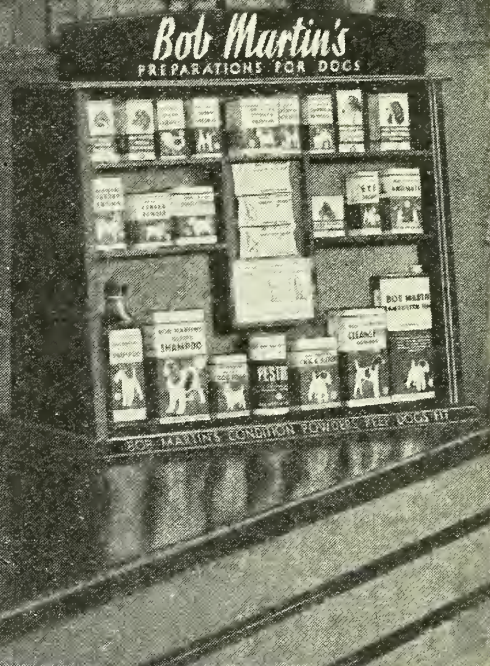
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Special offer! This new

Bob Martin
display case... with

FREE GOODS

to cover your outlay!



This handsome Display Case has been specially designed to enable retailers to stock and show the complete range of Bob Martin dog preparations in the most convenient and effective way. Hand-made by skilled craftsmen, and with a semi-matt mahogany finish, the Bob Martin Display Case embodies a sliding glass front—sloped to cut out confusing reflections—and has generous storage room at the rear. To duplicate this case would cost you at least £5, but by ordering in quantity and absorbing part of the cost ourselves we have been able to offer the Bob Martin Display Case to Bob Martin retailers at 22/6d.

FREE PARCEL OF GOODS. With each Display Case is being presented a free parcel (retail value 22/9d.) containing a complete range of Bob Martin preparations for dogs.

This means, therefore, that you, as a Bob Martin retailer, have only to sell Bob Martin

preparations to the value of 22/6d. to recover your original outlay. The case will then have cost you nothing!

NOTE: It is not a condition that a large order should be placed.

Full particulars of the special terms on which the Display Case is available will be found in the current issue (No. 11) of "The Lead." If you have not seen "The Lead," post the coupon below and full details will be sent you by return.

to Bob Martin Ltd., Southport, Lancs.

Please send me full particulars of the new Bob Martin Display Case and the special offer of free goods.

Name

Address

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.....

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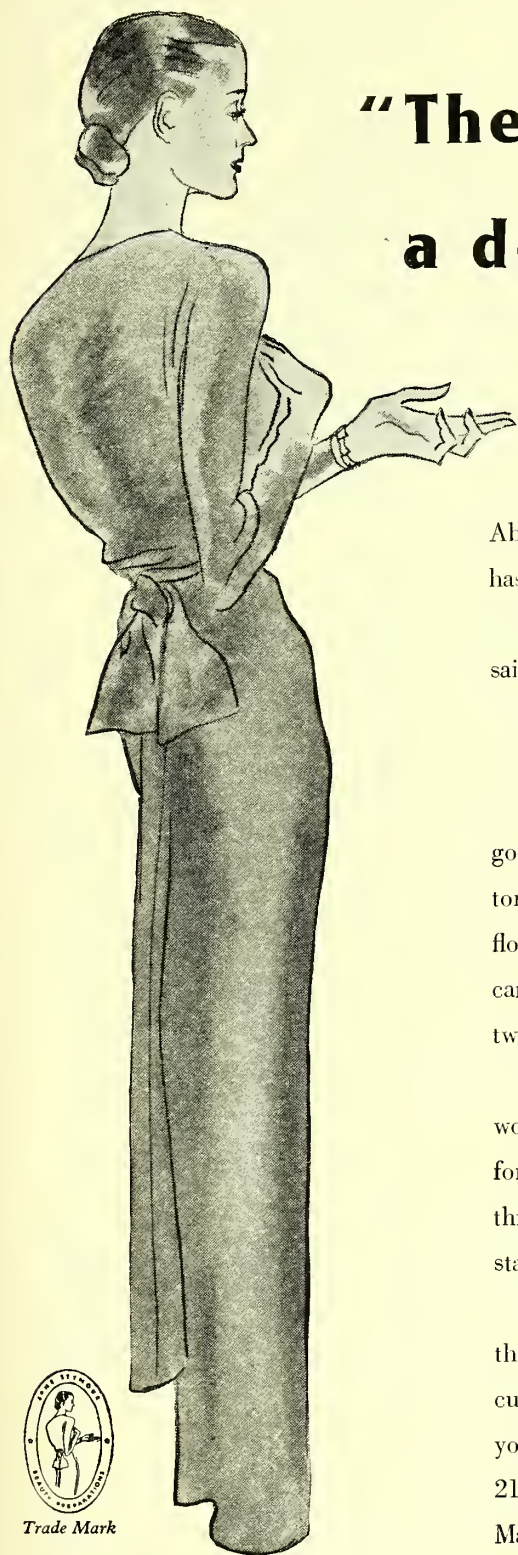
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"There's no such thing as a dead season," says Jane Seymour

About this time last year, I was talking to a prospective agent who has a business in a well-known seaside resort.

"I've heard wonderful accounts of your beauty preparations," he said. "As soon as the season comes—I'm going to try them out."

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SHAVE WITH A "LAUREL"

"LAUREL PENNY BLADES—ALL TYPES"

MADE IN SHEFFIELD, ENGLAND

"LAUREL"

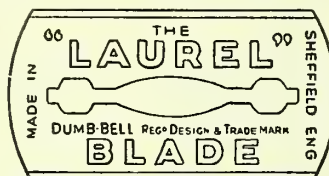
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SAFETY RAZORS
(NICKEL PLATED)

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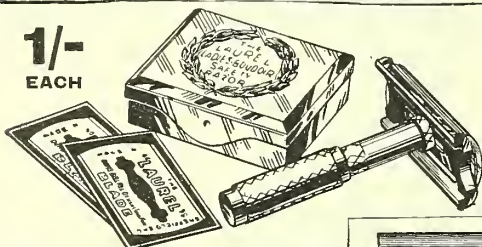


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BLADES**

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BLADES FOR
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send for trial sample FREE on application
to the distributors.*

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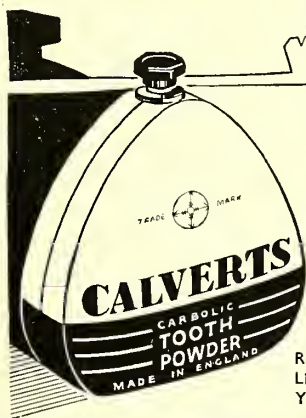
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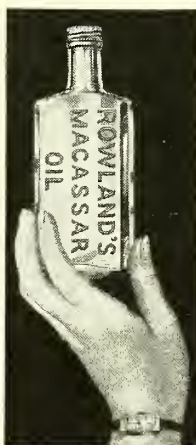
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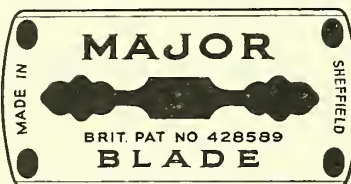
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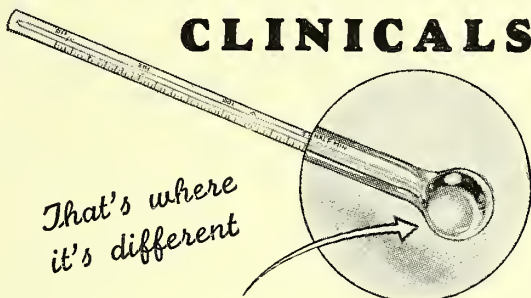
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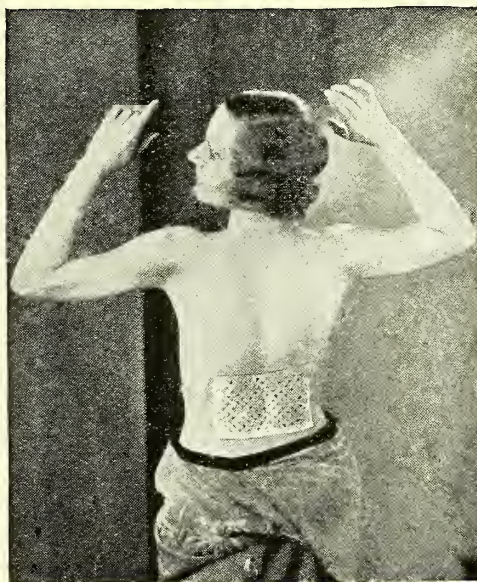
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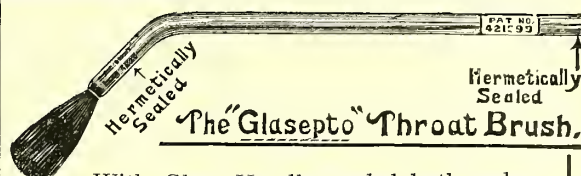
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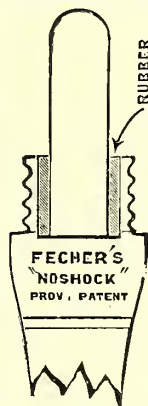
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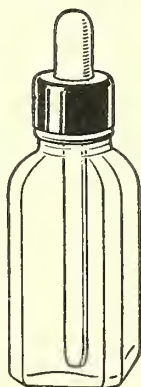
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AMBER GLASS.

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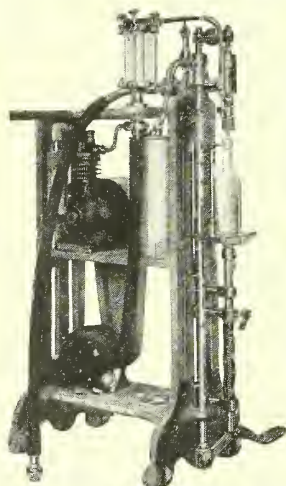
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long, short or
sprinkler neck.

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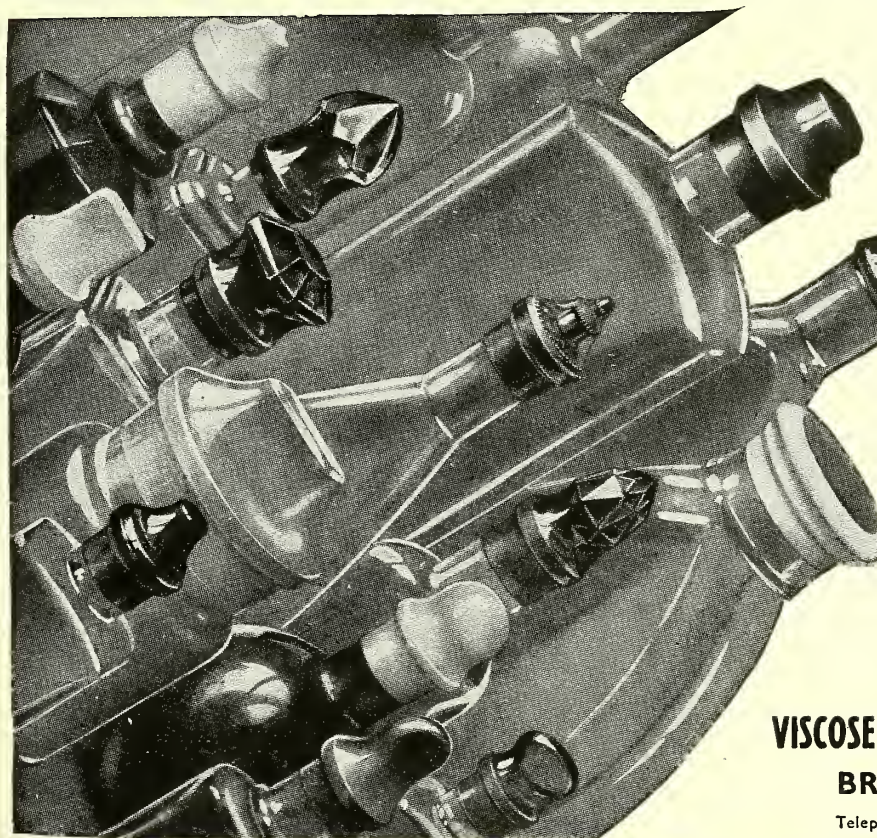
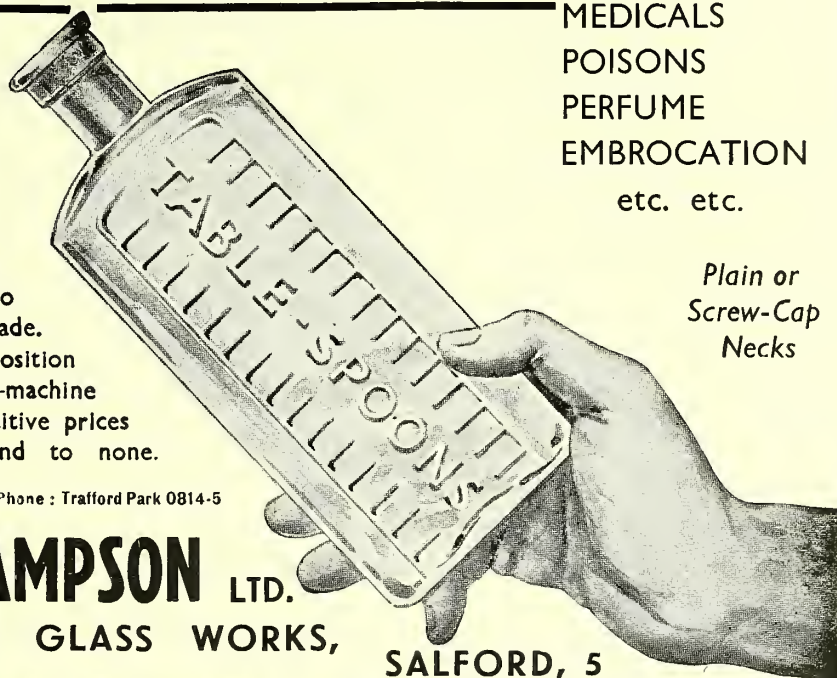
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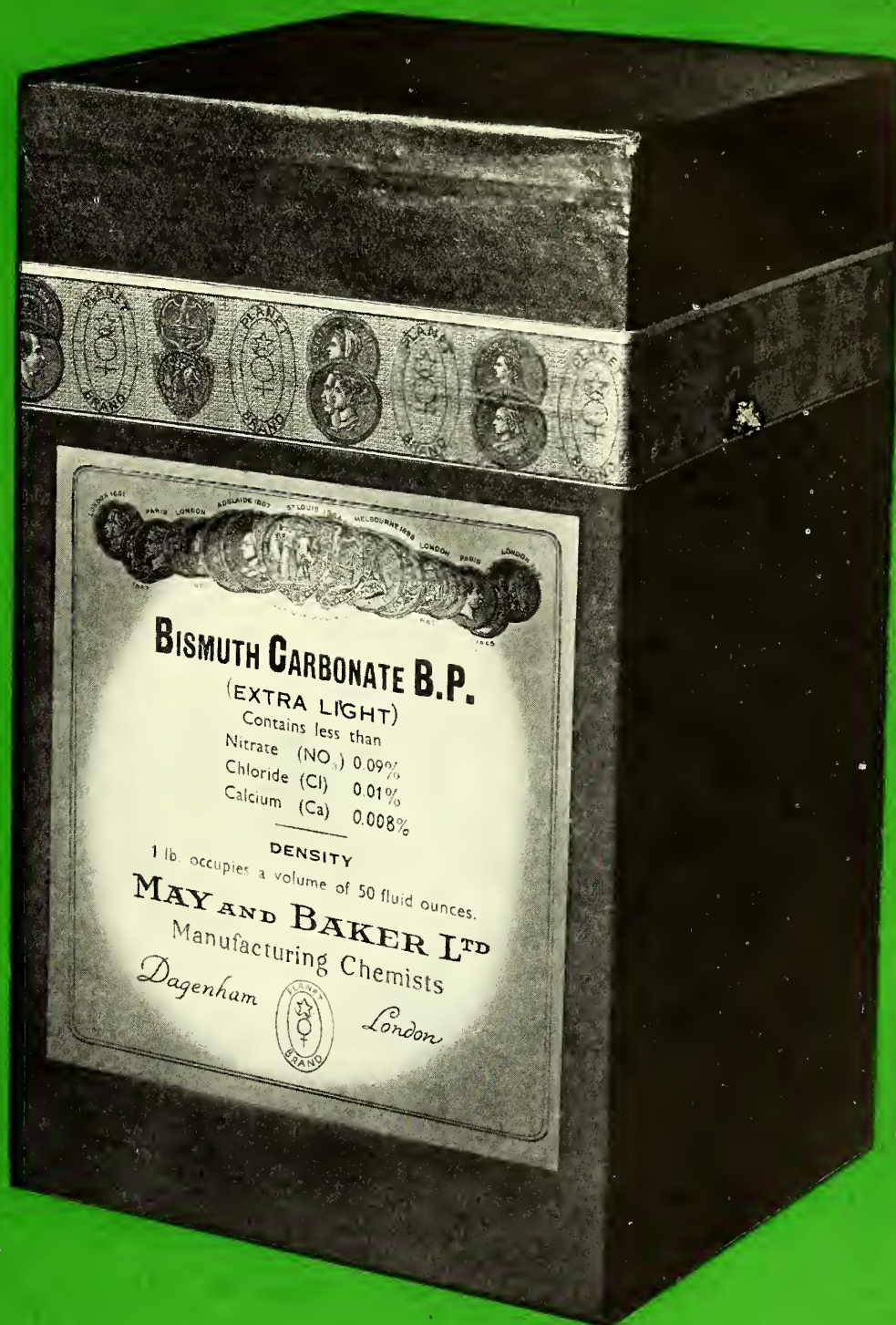
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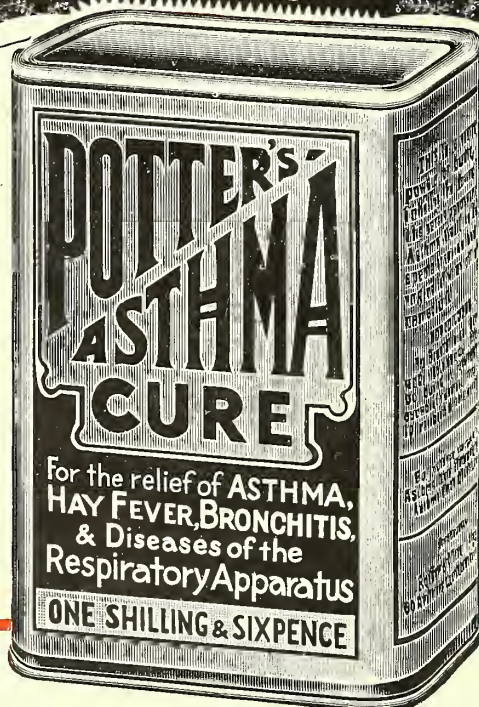
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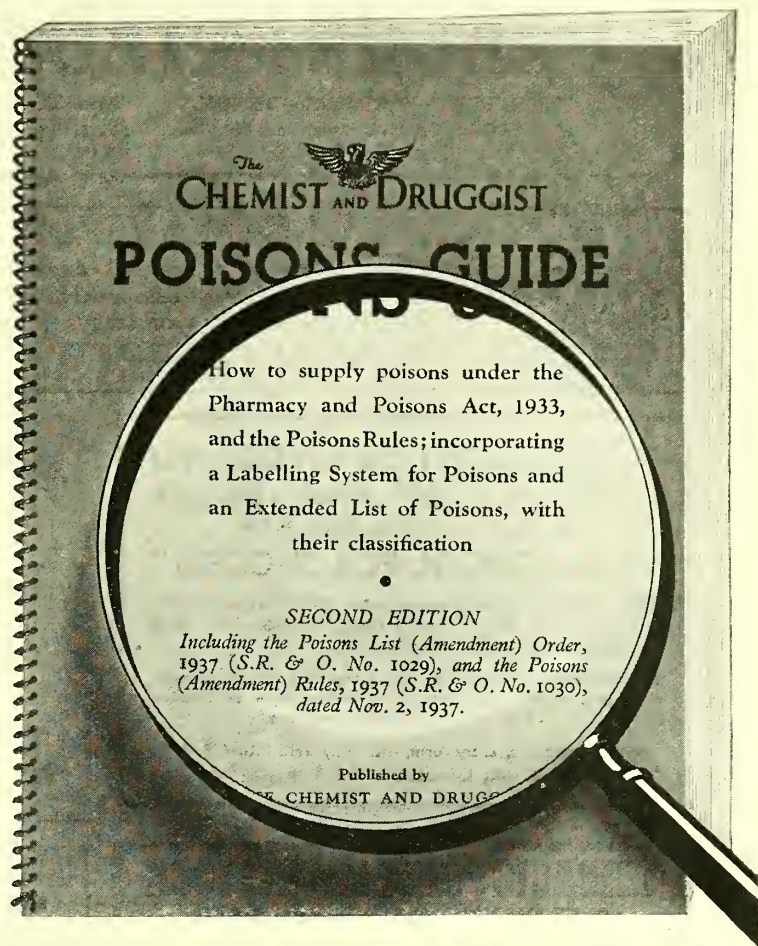
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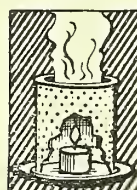
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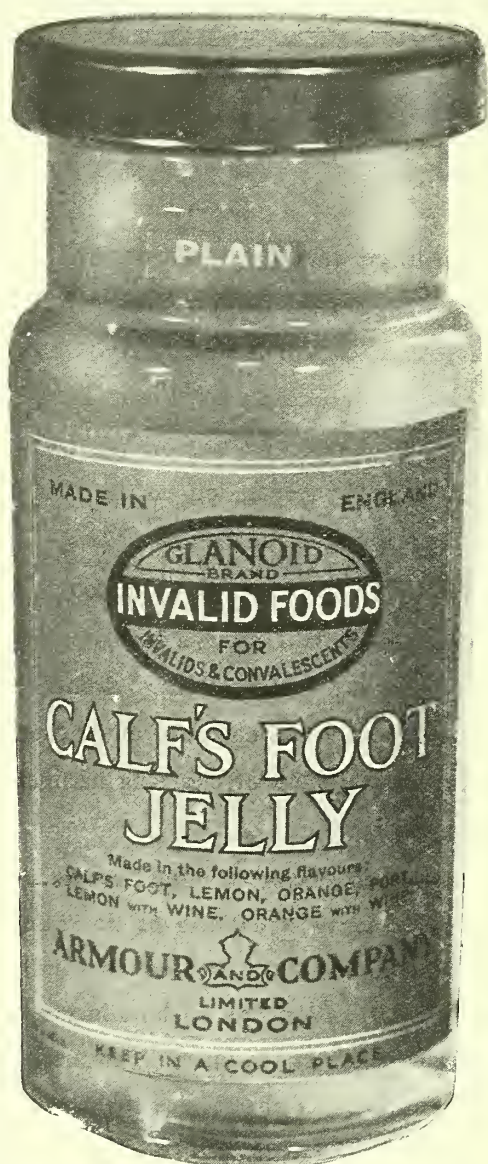
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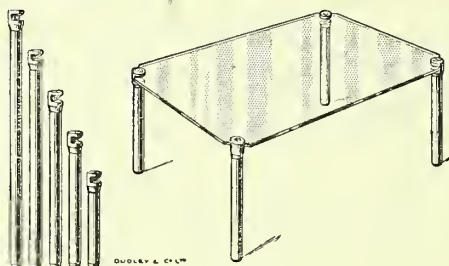
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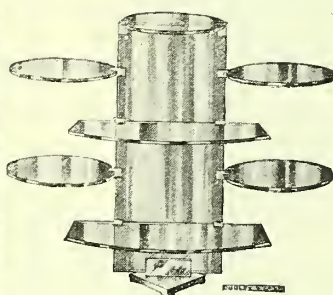
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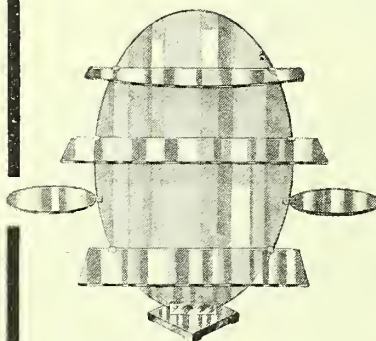
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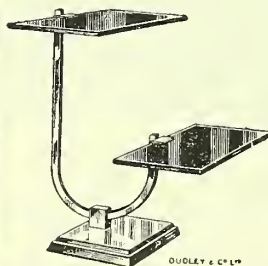
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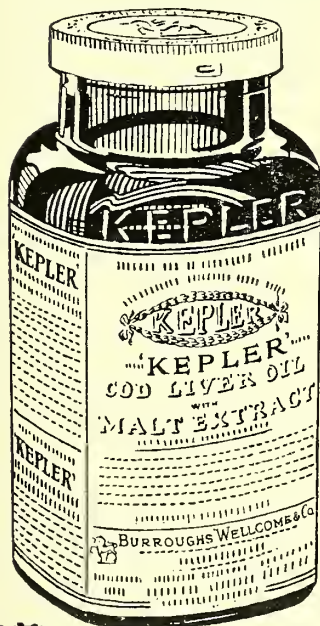
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News of the Week

Society of Glass Technology

The twenty-first anniversary dinner of the Society of Glass Technology took place in London, on January 11, the president (Professor W. E. S. Turner) in the chair. Replying to the toast "The Society," the president referred to the Society's appeal for assistance in providing a better department of glass technology. The sum first asked for was £20,000, but the Elmfield fund for the new department of glass technology at Sheffield University now amounted to £36,750. The Society further celebrated the anniversary by meetings in London on January 11 and 12. A series of lectures by authorities in various fields of glass technology were given in the Institution of Electrical Engineers, Victoria Embankment. Among the subjects dealt with were "New Developments in the Field of Optical Glass," by Mr. W. M. Hampton, B.Sc., Ph.D.; "Glass for General Scientific and Heat Resisting Purposes," by Professor W. E. S. Turner, C.B.E., D.Sc.; "Building with Glass," by Mr. Raymond McGrath, B.Arch., A.R.I.B.A.; and "Glass in Modern Illumination," by Mr. B. P. Dudding, M.B.E. Discussing the manufacture of glass for general scientific and heat-resisting purposes, Professor W. E. S. Turner said that in order to obtain unbiased evidence of the progress of this part of the industry he recently invited laboratory apparatus dealers in London and important industrial cities to inform him of the extent to which they now drew their supplies from British manufacturers in preference to foreign-made scientific glassware. All replied that they now either did not import any, or only a very small amount of chemical flasks and beakers. Glass tubings and almost all of the many forms of light blown glass apparatus of good quality and graduated apparatus of higher quality than the Continental were everywhere obtainable in Britain. Only in heavy glass apparatus was there still considerable room for development, and there steady progress was being made.

Proprietary Articles Trade Association

We have been advised of the following additions to, alterations in and deletions from, the Protected List of the Proprietary Articles Trade Association, 43 Gordon Square, London, W.C.1. (The retail and wholesale prices quoted are the minimum selling prices fixed by the manufacturers and protected by the P.A.T.A.):—

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doz.; 1s. 9d., 15s. 9d. doz.; 2s. 6d., 22s. 6d. doz.; 3s. 3d., 29s. 3d.; 4s. 6d., 40s. 6d. doz.; 13s., 117s. doz.; Shadspiro compound, 1s. 3d., 11s. 3d. doz.; 2s., 18s. doz.; 3s. 6d., 31s. 6d. doz.; Neverill Old Salts, 1s., 9s. doz.

ALTERATIONS.—J. Grossmith & Son, Ltd., Cachous in tins, 6d., 4s. 1d. doz.; Lysol, Ltd., Marshall's lysol. Price per dozen (6d. size) to retailers ordering £2 worth, 4s.; to retailers ordering £5 worth, 3s. 11d. Westminster Laboratories, Ltd., Brooklax, display terms, the manufacturers have added six new parcels, making fourteen in all, on which bonus is given for fourteen days' display. Bonus display parcels, A, B, C, D, G, H, K and L are invoiced at 26s. (bonus of ½-doz. 6d. size); parcels M, N, O, P are invoiced at 40s. (bonus of one doz. 6d. size); parcels E and F are invoiced at 52s. (bonus of one doz. 6d. size). On orders of 40s. and upwards, for cash with order or in seven days from date of invoice, a further 2½ per cent. may be deducted. Retail chemists unable to order standard parcel may make up order of not less than 26s. to qualify for bonus.

DELETIONS.—F. A. Parkyn, Crazy Water crystals; Vinolia Co., Ltd., Premier shaving sticks.

Exeter

WHIST DRIVE AND DANCE.—The annual whist drive, supper and dance of Exeter and District branch of the Pharmaceutical Society was held at Deller's Café, Exeter, on January 5. The company numbered about 230, the majority of whom took part in the whist drive which opened the proceedings. Dancing followed, and during an interval whist and dance prizes were presented by the Mayoress, who was accompanied by the Mayor (Mr. R. J. Rew) and other members of the civic party and the Recorder of Exeter. The Mayoress was thanked by Mr. A. C. Milton (chairman of the Branch), who also congratulated Mr. Philip F. Rowsell on his inclusion in the New Year's Honours. In acknowledgment Mr. Rowsell paid a tribute to Mr. Milton for his services as secretary of the branch. Prizewinners for whist were: *Ladies*, Miss M. Swain, Mrs. J. E. Peters, Mrs. C. Symes, Mrs. G. Orchard, Mrs. J. R. Gibbs, Miss M. Spurway; playing as gents, Mrs. L. Ray, Mrs. M. J. Widdecomb, Mrs. F. Cornish and Miss M. Northway. *Gentlemen*, C. H. Bray, C. E. Ferrier, M. F. Mann, J. Harris, F. Symes and G. Cork. Spot prizes for dancing were won by Miss Walton, Mr. Clarke, Miss Wolsley and Mr. Ware.

Gloucester

LANTERN LECTURE.—Gloucester and District Branch of the Pharmaceutical Society held a meeting on January 5 at the Tudor Café, Gloucester, when Mr. F. Wokes, of the Society's College, gave a lecture, illustrated by lantern slides, on "Pharmacology and the Poisons Schedules." The president, Mr. W.

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See p. 69

Hampton, was in the chair, and over thirty members and students attended. The lecture was followed by a discussion. A vote of thanks to Mr. Wokes was proposed by Mr. T. A. O. Heale, and seconded by Mr. Browning.

Huddersfield

ASSOCIATION DINNER AND DANCE.—The Huddersfield and District Chemists' Association and the local branch of the Pharmaceutical Society held recently a dinner and dance at Greenhead Masonic Hall, which was attended by a company of over 100. The president of the Branch (Mr. N. Lander) presided, and among the guests were the mayor and mayoress of Huddersfield, the Medical Officer of Health (Dr. J. M. Gibson), Dr. Jessie Sheard (representing the Huddersfield Branch of the British Medical Association), Mr. H. M. Hirst (a member of the Council of the Pharmaceutical Society). The president paid a tribute to the work of the Council of the Society, and assured Mr. Hirst of the loyalty of the Huddersfield Branch. The "Visitors and Ladies" were toasted on the call of Mr. J. L. Murgatroyd (vice-president of the Huddersfield Branch), and the response was given by Mr. J. A. Sullivan (president of the Bradford Branch). Mr. J. Tranmer acted as toast-master, and Mr. F. B. Hardcastle and Mr. N. Peel acted as M.C.s for dancing. There was also a whist drive, for which Mr. J. R. Woolhouse was M.C.

London

COMMERCIAL TRAVELLERS' MEETING.—A message to commercial travellers is to be delivered at Kingsway Hall, W.C.2, on January 21, by Sir Walter Citrine, K.B.E., supported by Mr. A. M. Wall, of British Actors' Equity, at 7.30 p.m., other speakers being Mr. Edgar N. Hiley, president of the National Union of Commercial Travellers, and Mr. C. J. Kebbell, secretary. All commercial travellers and their ladies are invited to attend. It is to be an open meeting and discussion will follow the speeches.

WEST MIDDLESEX CHEMISTS' ASSOCIATION.—About 140 guests were present at the twenty-fifth anniversary dinner and dance of the West Middlesex Chemists' Association and Branch of the Pharmaceutical Society, which was held at the Trocadero Restaurant, Piccadilly, W.1, on January 12. The visitors were warmly received by the president of the Association, Mr. F. G. Wells, and Mrs. Wells, and by the president of the Pharmaceutical Society, Mr. Thomas Marns, and Mrs. Marns. Following the loyal toast, proposed by Mr. Wells, who was in the chair, Mr. S. R. Hughes, vice-president of the Association, gave the toast of the Pharmaceutical Society, to which Mr. Marns replied. Mr. Marns expressed much pleasure in replying to a toast given by one of his past pupils, Mr. Hughes, and said that he felt more at home at the dinners of the Association than at most others. Mr. E. Neville Browne, president of the South-West London Chemists' Association, in proposing the toast of West Middlesex Association, made an appeal to its younger members to take as active a part as possible in its activities and to help to mould its future. He paid tribute to the devotion shown by Mr. Wells to the Association. Replying, Mr. Wells welcomed Mr. Marns, and assured him of the Association's loyalty to the Society. After dinner, the company was entertained by Miss Nan Kenway and Mr. Douglas Young. This was followed by dancing. Among those present were: Mr. and Mrs. H. Skinner, Mr. and Mrs. W. S. Howells, Mr. and Mrs. J. F. McNeal, Mr. and Mrs. J. Young, Mr. G. A. Tocher, Mr. and Mrs. Spooner, Mr. E. N. Browne, Mr. and Mrs. F. C. Davis, Mr. J. C. Goodall, Mr. and Mrs. Pretty, and Mr. H. E. Chapman.

Preston

ASSOCIATION DINNER-DANCE.—The second annual dinner-dance of the Preston and District Pharmacists' Association was held at the Victoria and Station Hotel, Preston, on January 6. The president, Miss E. F. Seed, presided, supported by Mr. F. A. Dixon, vice-president, and Mr. Cyril G. Livesey, secretary. Nearly 200 people were present and were welcomed by Mr. F. A. Williamson, Mr. Carter, Blackburn, replying. During the evening a dance exhibition was given by Mr. Farnworth and Miss Sarti. The M.C.s were Messrs. C. G. Livesey, H. Moon, W. G. Mercer and F. McLaughlin. Mr. F. A. Williamson was M.C. for whist, the winners at which were Miss Riley, Mrs. Smith and Mrs. Molyneux, Mr. C. Broadbent, Mr. Wood, Mr. Hartley and Mr. Christopher.

Miscellaneous

INQUESTS.—At Reading, on January 4, a "suicide" verdict was returned at the inquest on Mr. A. J. R. Swanson, M.P.S., who was found dead in a gas-filled room (see p. 67).

At Deptford, London, S.E., on January 10, an inquiry was held into the circumstances connected with the death of a three-years old child. Mr. S. H. Ross, M.P.S., said that he communicated the child's symptoms to his brother by telephone, and Dr. Ross prescribed medicine which he (witness) dispensed. It was sodium bicarbonate, sodium salicylate and syrup. In the course of his evidence Dr. Ross said there was an epidemic of measles in that district. He regarded this as a similar case and instructed his brother to dispense a simple medicine. According to other medical evidence, the child's death was due to broncho-pneumonia. The medicine given would have a depressing action, whereas the case needed stimulation. It would be dangerous to prescribe medicine without seeing the child. A verdict of death from natural causes was recorded.

NEW OXYGEN FACTORY.—The Commissioner for the Special Areas in England and Wales announces that work has begun on the preparation of the site for a factory for the Saturn Oxygen Co. at Pallion, Sunderland.

PENSION SCHEME.—Meggeson & Co., Ltd., lozenge and pastille manufacturers, Bermondsey, London, S.E.16, who were established in 1796, have inaugurated a voluntary pension scheme which will make it possible for every worker connected with the company, whatever grade of employment, to become pensionable and to be insured for life. Although Messrs. Meggeson have made a practice of retiring every servant of the company on pension, it has been felt that the new method whereby the company pays a percentage and the employee a small percentage of his emolument into the scheme under a superannuation basis is more dignified and a more definite guarantee of security to every employee.

Scottish Notes

Glasgow and the West

METHYLATED SPIRIT.—Glasgow magistrates have granted 124 applications of traders desiring to be registered for the sale of methylated spirit.

UNQUALIFIED VENDORS.—At a recent meeting of the Health Committee the town clerk reported that the Corporation had approved of the following motion:—"That it be remitted to the Committee on Health to consider and report on the advisability of the Corporation petitioning the Government for power to control and supervise persons or firms who are not qualified chemists and who sell within the city, drugs to members of the public." The committee, after discussion, remitted the subject-matter of the motion for consideration and report to the following special sub-committee, viz.:—Bailie John Stewart (Maryhill) and Councillors David W. Gibson, MacCalman, O'Hare, Stewart Reid, and Robertson.

Miscellaneous

DISTRIBUTING AGENCY.—T. Shaw & Son (Glasgow), Ltd., Hillington Road, North Hillington, Glasgow, S.W.2, have been appointed distributing agents for the Potter Drug and Chemical Corporation (Cuticura preparations) for Scotland and the North of Ireland.

ENSIGN, LTD.—The Glasgow branch of Ensign, Ltd., has been closed, and photographic business will be handled in future from London. Mr. W. H. Seagell, branch manager, has been appointed the photographic representative for Scotland and the North of England.

PACKED GOODS.—"Formerly Scottish wholesale houses were not in the running with English in the production of packed drugs and chemicals," writes a correspondent, "but to-day the Scottish houses can not only hold their own but give points in the art of 'get up.' They have also departed from conservative and stereotyped ideas and are ready to meet the problems of their customers, which is as it should be. Deliveries, too, have been greatly speeded up, in country districts especially, enabling the retailer to meet the competition of multiple stores with promptitude."

Irish Notes

Belfast

MR. R. BOYD ABERNETHY, M.P.S.I., informs us that owing to renumbering his business address is changed from 225 to 163 Hollywood Road.

ULSTER CHEMISTS' ASSOCIATION.—The monthly meeting of the Executive Committee of the Ulster Chemists' Association was held in the Pharmacy Rooms, University Street, Belfast, on January 4, Mr. R. Linehan (president) in the chair. Messrs. C. Abernethy, J. Dundee, T. A. Gibson, A. E. Johnston, James McDowell, John McDowell, J. McGregor, R. A. McEwan, J. M. Poots, W. J. Rankin, E. A. Richey, P. R. W. Shinner, A. Steede and J. Wellwood were also present. The president conveyed the deep sympathy of the Committee with Messrs. James and John McDowell in their bereavement, and congratulated Messrs. A. E. Johnston and R. A. McEwan on additions to their families. The advertising subcommittee reported that a series of advertisements was being drawn up and would appear in due course. Routine business was transacted, price alterations were considered and adopted, and accounts passed for payment.

Dublin

BUSINESS CHANGES.—Mr. Thomas M. Nolan, M.P.S.I., is opening a pharmacy at 3 St. Agnes's Road, Crumlin, co. Dublin.—Mr. M. Nicell, M.P.S.I., Dawson Street, Dublin, is opening a second pharmacy at Lower Baggot Street.—P. C.

Cahill & Co., Ltd. (wholesale chemists), North Lotts, Dublin, have opened a new entrance to their warehouse in Bachelor's Walk, with a reception office and large suite of stockrooms.

STRIKE SETTLEMENT.—The conference arising out of the strike of girl packers employed by three Dublin wholesale druggists' sundriesmen (*C. & D.*, January 1, page 3) reached agreement on January 5. The conference was between representatives of the wholesale section of the Irish Drug Association and the Drug Trades' Group in the Dublin Trades Union Council. It was held under the auspices of the Department of Industry and Commerce. The proposals have been ratified by the workers, and after the usual public notice the rates agreed upon will be put into operation in establishments controlled by members of the wholesale section, I.D.A.

Miscellaneous

ON THE ELECTORAL PANEL.—Mr. Hugh B. O'Donoghue, M.P.S.I., The Pharmacy, Virginia, co. Cavan, is one of seven members chosen by the Cavan County Council to go upon the electoral panel for the new Senate. Each County Council selects seven.

LONDONDERRY TRAINING FACILITIES.—The Pharmaceutical Council of Northern Ireland has agreed to recognise the Londonderry Municipal College of Technology for classes in pharmacognosy and pharmacy. This will mean that student-apprentices can now take all their classes in Londonderry. The concession will operate from September next. The Pharmaceutical Council are presenting the Londonderry centre with £30 worth of botanical and pharmaceutical specimens.

Topical Reflections

By Xrayser

Pharmaceutical Committees' Obligations

It may appear superfluous to add to your trenchant pronouncement (*C. & D.*, January 8, p. 43) on the duties of pharmaceutical committees to their constituents. I may perhaps comment, however, that the power of the purse is never to be ignored; and you may be assured of the thanks of your readers for calling attention to it in this manner. If every member of these committees will forget that "dear old Charlie," or whoever is his opposite number in some other committee, may object to chemists' rights being asserted, the desired progress may be made. In the early days of National Health Insurance dispensing I saw three N.H.I. prescriptions for eye lotions which had been dispensed for the same patient within a few days of each other—the three within a week, I believe. The first two contained eserine sulphate and cost about 8s. each. The third was a solution of boric acid. The doctor was to my knowledge an experienced and careful prescriber, and there may have been an entirely satisfactory reason for the sequence of the lotions. But there, on the face of it, was a case for inquiry. A little light is being spread, I am glad to see, in the lay Press on the position of contracting chemists in insurance dispensing. A few weeks ago I cut from a local newspaper a report containing this sentence: "Mr. — added that the only person who comes badly off is the chemist, whose accounts are subject to what is known as 'discounting.'" (Mr. —, by the way, is a pharmacist who does not undertake panel dispensing.) I suggest that chemists put in a word in season to this effect whenever they have the opportunity.

Old Price Lists

Your article headed "A Pioneer Price List" (p. 36) raises again a subject of perennial interest to chemists in business, and I could easily fill my available space this week with reflections (topical or otherwise) upon it. The editorial mention with which you introduced your Retail and Dispensing Price List in your first issue of 1922 (p. 56) contains a more extended reference to old price lists; and an article in your Annual Special Issue of June 30, 1934, goes back further still. I had in my hand the other day a book referred to in the last-named issue, "The Charitable Physician," translated from the French original in 1639, and I explored the possibility of estimating from the price lists given in it the total value of the sixty-six items or groups of items that "the rich

ought to have in their houses." Though this would have involved too much "paper work" for my purpose, I noted that the pound of senna referred to cost then 4s. 6d., the 4 oz. of rhubarb 7s., and the 2 lb. of cassia 9s. Multiplying by the requisite factor to bring these sums to the equivalent of present-day values, and taking into consideration the number of items, seventeenth-century apothecaries should have found good customers among the well-to-do. I have been looking at the retail prices tabulated in your account as current in Edinburgh in 1884, and wishing the selection was longer. In that year liquid extract of cascara sagrada had only just come into ordinary medicine and was somewhat of a rarity; hence its high price. Quinine sulphate was charged in my apprenticeship days at about the same rate as in Edinburgh: usually it was sold in threepenny and sixpenny packets, folded powder-wise, and I recall the perturbation when a note arrived from the nearest chemist suggesting that my employer and he might simultaneously lower the price to 2s. a drachm.

Scientific Instruments

Your two pages describing a recent exhibition of scientific instruments and apparatus (pp. 48, 49) are a reminder of the necessity of having adequate apparatus, usually elaborate and almost always costly, in modern research. I am inclined to think that we shall never again see far-reaching generalisations based on experiments conducted with an outfit of two or three glass vessels, a few odd pieces of string and a modicum of sealing wax. At the annual conversazione of the Royal Society in 1936 there was a captivating demonstration of what I may describe as the bombardment of slow-moving neutrons, resulting in the production of artificial elements. By this time there may be another name for this process; but at any rate the effect on the spectator was that of a superhuman creative power, and it was not surprising that a small crowd formed round this spectacular exhibit. The apparatus may well have been constructed at a cost running into three figures: in this aspect of the matter we encounter one of the difficulties in original scientific work. When the late Sir James Dewar was busy with his discoveries in the compression of gases during the 'nineties, I remember hearing a public analyst say something to this effect: "I could get such results if I could get someone to put up the money." That is still more the state of the case now. However, if we cannot all engage in research, we can keep ourselves informed of the latest developments. The effort will repay us.

Company News

P.C. means Private Company and R.O. Registered Office

W. JACKSON (CHEMISTS), LTD. (P.C.).—Capital, £100. Objects: To carry on the business of chemists, opticians, etc. Wm. T. Lloyd Hives, 54 Deodar Road, Putney, S.W.15, director.

W. McEWEN, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a chemist and druggist carried on by Wm. McEwen at 17 Craven Road, Hyde Park, W.2.

PHARMACEUTICAL TRUST, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, etc. Henry Lovett, 12B Belsize Crescent, N.W.3, director. R.O.: 25 Budge Row, E.C.4.

RODOL, LTD. (P.C.).—Capital £3,000. Objects: To carry on the business of chemists, druggists, etc. The first directors are to be appointed. Solicitors: Eaton Smith & Downey, Britannia Buildings, Huddersfield.

OUR CHEMISTS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of dealers in chemicals, gases, drugs, medicines, etc. Georganna Edwards, 6 The Parade, Mitcham Road, Croydon, director.

LAKING CHEMICAL CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, etc. Harry W. K. Pears, New Chapel House, Lingfield, Surrey, director. R.O.: 58A Brompton Road, S.W.3.

GERRARD, WALTERS & CO., LTD. (P.C.).—Capital £2,000. Objects: To carry on business as manufacturers of and dealers in optical, nautical, surgical and scientific instruments, cameras, etc. W. Cahen, 2 Cleve House, Cleve Road, N.W.6, director.

RIPLEY WEBB, LTD. (P.C.).—Capital, £100. Objects: To carry on the business of manufacturing, pharmaceutical and general chemists, herbalists, etc. Herbert L. Pike, 13A Crowther Road, South Norwood, S.E.25, director. R.O.: 13A Crowther Road, S.E.25.

CHROMO BIOCHEMICAL CO., LTD. (P.C.).—Capital, £100. Objects: To carry on the business of manufacturers and dealers in all kinds of chromo bio-chemical and bio-chemical preparations and substances, etc. Wm. Anderson, "Redlands," Gelding Road, Carlton, Notts, director. R.O.: 74 Mansfield Road, Nottingham.

GRIFFIN & TATLOCK (LABORATORY CONSTRUCTION), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in equipment and plant for laboratory, scientific and educational purposes, etc. Major A. L. S. Wood, J. D. Tatlock, N. M. Wood and J. Kennedy, 35 Ashbourne Grove, E. Dulwich, S.E.22, directors.

FIFTH AVENUE BEAUTY PREPARATIONS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers and dealers in pharmaceutical, medicinal, chemical, cosmetic, herbal, perfumery, toilet, vegetable and all other preparations, etc. Alphonse H. Kaye, 20 Pier Street, Lee on the Solent, Hants, director. R.O.: 10 Carlisle Road, The Hyde, N.W.4.

NAVAN MEDICAL HALL, LTD. (P.C.).—Registered in Dublin. Capital £300. Objects: To acquire the business of a pharmaceutical chemist heretofore carried on by Mrs. Eileen Loughran, Ludlow Street, Navan, co. Meath. Una Mary O'Sullivan (chairman), Ballybeg House, Kells, co. Meath, chemist's assistant, and Eileen Loughran, Ludlow Street, Navan, co. Meath, pharmaceutical chemist, directors.

WORK AND SCIENCE, LTD. (P.C.).—Capital £50,000. Objects: To acquire and turn to account any patents, brevets d'inventions, concessions, monopolies or rights; to manufacture and deal in machinery, plant and articles capable of being manufactured, produced or traded in in connection with such patents, etc., to carry on the business as mechanical and general engineers, metallurgists, and chemists, etc. The first directors are Tounie Wolk (permanent), address not stated, and others to be appointed. Solicitors: Gisborne & Co., Temple Chambers, E.C.4.

ACACIA DRUG CO., LTD. (P.C.).—Capital £250. Objects: To carry on the business of wholesale and retail chemists, druggists, herbalists and opticians, etc. Ernest E. Purcer, 48 Marlborough Road, Queen's Park, Bedford, director.

SHIPLEY PAINT AND VARNISH CO., LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers and merchants of and dealers in oil, paint, methylated and other spirits, chemicals, varnishes, etc. Raymond Long, Rayholme, Grange Park Drive, Bingley, director. R.O.: Ashley Lane, Shipley, Yorks.

Voluntary Liquidations

Oulton Road Pharmacy, Ltd., 25 Oulton Road, Stone, Staffordshire. At the statutory meeting of creditors the statement of affairs disclosed ranking liabilities of £1,288 19s. 5d., of which £829 4s. 6d. was due to the trade and £459 14s. 11d. to cash creditors. The assets totalled £334 12s. 8d. From that amount had to be deducted £13 os. 4d. for preferential claims and £100 7s. 5d. due on a debenture. The net assets, therefore, were £221 4s. 11d., or a deficiency, as regarded the creditors, of £1,067 14s. 6d. The issued capital of the company was £100, and so far as the shareholders were concerned there was a deficiency of £1,167 14s. 6d. A resolution was passed in favour of the voluntary liquidation of the company being continued, with Mr. R. E. Clark, C.A., Hanley, as liquidator. A committee was also appointed.

J. Barratt & Co., Ltd., Tonge Spring Works, Middleton, near Manchester, chemical manufacturers. At the statutory meeting of creditors, held recently at Manchester, the statement of affairs disclosed ranking liabilities of £1,565 6s. 5d., made up as follows: Trade creditors, £588 18s. 8d.; cash claims, £192 12s. 6d.; and bankers, £783 15s. 3d. After allowing £57 8s. 9d. for preferential claims, the net assets were £1,372 11s. 3d., or a deficiency, as regarded the creditors, of £192 15s. 2d. A deficiency account was also submitted, which showed that on April 1, 1935, the assets exceeded the liabilities by £2,230, and since that date there had been a gross profit on the trading of £1,065. During the same period, however, the general expenses had totalled £2,401, and the balance of the deficiency was attributed to the depreciation written off the assets. Resolutions were passed confirming the voluntary liquidation of the company, with Mr. A. Yearsley, I.A., Manchester, as liquidator. A committee was also appointed.

Bankruptcy Reports

Re Francis Thorp (known as Frank Thorp), 47 Kenyon Lane, Moston, Manchester, proprietor of drug stores. The first meeting of creditors of the above was held recently at the Official Receiver's Offices, Manchester. Debtor said that his failure was due to falling off in trade through the closing of a large works and to competition. His statement of affairs showed ranking liabilities of £249 and assets of £34. The case was left in the hands of the Official Receiver, as trustee.

Re J. F. Cunningham, Dunmow, Essex, chemist. This debtor's public examination took place recently at the Shire Hall, Chelmsford. He said in 1919 he went to St. Leonard's to take up the managership of a chemist's business. In 1920 he agreed to purchase that business for £600, which he paid by instalments. He sold the business in 1924 for £2,100, and discharged all his liabilities. In June, 1932, he opened a business at High Street, Dunmow, with a capital of £25. Trading was successful, but in 1934 the turnover declined. In March this year four executions were levied, and the stock and fittings were sold. In May a limited company was formed, of which debtor was appointed managing director, and that company, debtor said, took over the debts. His liabilities amounted to £447 11s. 11d., and there was a deficiency of £446 11s. 11d. The examination was adjourned for debtor to produce certain papers.

Imperial and Foreign News

Central and South America

NATIONAL PHARMACOPŒIAS.—The following countries possess pharmacopœias:—Argentine Republic, Brazil, Chile, Mexico and Venezuela. The United States Pharmacopœia has been adopted in Cuba, Costa Rica, Puerto Rico, Panama and Santo Domingo. The French Codex and its Supplements are in general use and, though not official, are practically obligatory in Bolivia, Ecuador, Guatemala, Haiti, Honduras, Paraguay, Salvador and Uruguay. Both the United States and French Pharmacopœias are recognised in Peru and Nicaragua. Santo Domingo also uses the French Codex. Colombia, besides using the French and United States Pharmacopœias, makes unofficial use of the British. European possessions in South and Central America make use of the pharmacopœias of the respective European nations. In Uruguay an editorial commission has been formed for the purpose of publishing a national pharmacopœia.

Germany

NATIONAL PHARMACY MUSEUM.—An appeal is being made to German pharmacists by the Reichsapothekerführer (State Pharmacy Leader.—see *C. & D.*, 1935, II, 535) to present or loan specimens for a German pharmacy museum. It is stated that there are some 3,000 pharmacies in Germany of which the age varies between 150 and 500 years. Many of these, it is held, must harbour "rich treasures of the pharmaceutical past." In the projected museum one room will be taken up with a historical pharmacy, another with the reconstruction of an old laboratory. In three rooms there will be a record of the development of modern materia medica, divided into animalia, mineralia and vegetabilia. One or two rooms will be allotted to historical books, of which already over 1,000 volumes have been collected. These are at present being catalogued.

India

RAZOR BLADE ACTION.—Gillette Industries, Ltd., were the plaintiffs and Yeshwant Bros. (selling agents in India for Navy and Navy Blue blades manufactured by the Triangle Mechanical Laboratories Corporation) the defendants in an action alleging infringement of patent rights. The case came before Mr. Justice Blackwell at Calcutta on December 10. The plaintiffs claimed that the Navy and Navy Blue blades infringed Claim I of the Patent, which consisted of a blade in which a medial slot extended substantially over the whole effective length of the cutting edge. This was proved to have considerably reduced the stress on blades and consequent danger of fracture. Defendants stated that the Triangle Corporation had been manufacturing razor blades with medial slot for several years and selling them in more than twenty different countries. The Judge held that the evidence showed that, prior to the improvements made under the patents held by Gillette Industries, Ltd., no razor blades with long medial slot were manufactured or sold anywhere. He passed a decree in favour of the plaintiffs, granting the injunction asked for, together with costs. Nominal damages were awarded.

DRUG RESEARCH.—The Government of India proposes to devote more funds in future to the carrying out of research on indigenous Indian drugs. For some years past investigation into the pharmacological action of indigenous drugs has been carried on by the Director of the Calcutta School of Tropical Medicine, and the investigation has yielded valuable results. With financial support from the Imperial Council of Agricultural Research, an attempt is being made to classify the Indian medicinal plants. An important investigation is that directed towards large-scale production of pyrethrum in India, in view of its importance in combating malaria. At present pyrethrum is grown only in Kashmir.

Japan

CENSUS OF PHARMACISTS.—According to an investigation carried out by the Sanitary Bureau of the Home Department, the total number of pharmacists in Japan at the end of 1936 was 26,732. Of these, 17,611 are "engaged in the work of medical preparation," 3,009 are employed in hospitals and clinics, and 1,683 keep retail shops. The number per 1,000 of population varies in different districts from 0.25 (Okinawa) to 11.32 (Tokyo).

"COMFORT KIT" SALES TO THE ARMY.—Although the number of Japanese soldiers and sailors sent to China has not been published, an impression of the strength of the expeditionary force may be gained from the number of so-called "comfort-kits" sold by drug and department stores since the beginning of the present crisis. These kits contain a rubber sponge, soap, tooth-brush, nail-clipper, razor or safety razor, and other toilet articles. More than 100,000 have been collected by patriotic societies for distribution to soldiers since the outbreak of the present hostilities in addition to those which soldiers have bought or received privately.

ADDITIONAL PROHIBITED IMPORTS.—The Japanese Government has prohibited importation of a large number of items on the customs tariff, including many industrial chemicals, drugs, perfumery and toilet articles and other luxuries. Included are candles; soap; oils, fats and waxes, perfumed, and preparations thereof, perfumed; perfumed water; baking powder; tooth-paste, tooth-washes, toilet powders and other prepared perfumeries. In an effort to balance the special war emergency budget, an extraordinary sales tax of 20 per cent. has been levied on photographic cameras and accessories, films and dry plates, gaslight and bromide papers, perfumes, lipsticks, powders and other commodities.

New Zealand

PHARMACY PLAN APPROVED.—New Zealand pharmacists have by an overwhelming vote approved the Pharmacy Industry Provisional Plan (*C. & D.*, January 8, p. 45). The Minister of Industries and Commerce announced, on December 18, that 94 per cent. of replies had been received from 602 shops and principals. Of the votes recorded, 544 (96 per cent.) were in favour and 19 against, five being inconclusive. Opposition to the Plan is being voiced by dealers who have built up a door-to-door connexion as dealers in household medicines and necessities.

South Africa

POISONS REGULATIONS.—Regulations governing the labelling and sale of poisons in the Union of South Africa, framed by the Minister for Public Health under the Medical, Dental and Pharmacy Act, 1937 (*C. & D.*, 1937, I, 563) have been gazetted. They lay down that all poisons must be labelled, the label stating whether the poison is included in Division 1 or in Division 2 of the list; and make provision for issue to co-operative societies or general dealers of certificates permitting sale of certain preparations containing poisons. These certificates may be obtained from the local magistrate or certain other responsible officials, and authorise the sale of the "following poisons or preparations containing poison, as may be specified in regulations to be made by the Minister, i.e., poisons to be used exclusively in agriculture or horticulture, or as a dip for cattle, sheep, or other animals, or to be used exclusively for the destruction of vermin, insects, plants, fungi or bacteria, or for the preservation of wood." The regulations also provide for inspections in connexion with every aspect of the trade in poisons, and give the Department the right of search in premises and in vehicles. Any person found in the possession of poison may be called upon to produce correspondence or documents showing how he came into possession of such poison, and may also be asked to provide a sample of the poison. It is laid down as the duty of the Medical Council and the Pharmacy Board to bring to the notice of the Minister any case in which it is considered that an inspection should be made. The new regulations are not expected to make much difference to legitimate chemists' and druggists' business, but are welcomed by most pharmacists because they will give the Government more effective control over the sale and handling of poisons by people not fitted to do so.

United States

NEW YORK WORLD'S FAIR, 1939.—The British Empire has taken the largest area (140,000 sq. ft.) of any foreign nation to be represented at the World's Fair, New York, 1939. Australia, New Zealand and several Crown Colonies will have independent exhibits in this section. Sir Louis Beale, K.C.M.G., C.B.E., has been appointed Commissioner-General for the United Kingdom section.

Plastic Materials in Pharmacy

THE subject of the Pharmaceutical Society's evening meeting held at 17 Bloomsbury Square, London, W.C.1, on January 11, suggested, inevitably, some sort of sequel to the meeting during 1936-37 session, at which the subject was stainless steel. It was on this reminiscent note that the president (Mr. T. Marns) opened the proceedings. Mr. Marns introduced the speaker, Mr. H. V. Potter, B.Sc., F.I.C., M.I.Chem.E., as a Ph.C., as an old student of the Society's school, an herbarium medallist and a silver medallist of the Society, as well as an industrial chemist. Pharmacists, he claimed, were adaptable people, and Mr. Potter possessed this pharmaceutical quality in a degree commensurate with the materials that formed his subject.

Before introducing the sound film illustrating the manufacture of Bakelite, Mr. Potter dealt briefly with the history and chemistry of the plastics industry. The industry, he said, covered bitumen plastics, natural resins, celluloid and cellulose ethers and esters when plasticised, casein plastic, the newer resinoids such as phenol-formaldehyde and urea-formaldehyde and other similar products which softened with heat and hardened on cooling. The Egyptians, he said, had used bitumen and natural resins with skill. It was not until 1865 that the next plastic, celluloid, was introduced. In that year Alexander Park disclosed to the Royal Society of Arts his discovery of the use of camphor as a plasticiser with cellulose. Mr. Park, however, never developed the industrial side, and it was Hyatt who later developed the process commercially in the United States. Casein was first successfully plasticised in 1885, and its manufacture taken up in Germany in 1900. Bayer (1872) discovered the phenol-formaldehyde reaction, but had no commercial intentions, and the process was not commercially developed until Dr. Baekeland took out a patent which covered a process for the control of manufacture by reducing the amount of catalyser necessary. The phenol-formaldehyde resinoid was produced in three stages; in the first, three parts of phenol and two of formaldehyde were heated in the presence of a condensing agent or catalyser to produce a substance which was soluble in spirit, acetone, and such solvents. Further heating produced a material which was insoluble yet fusible, whilst still further heating resulted in the chemical change of polymerisation, which produced a substance soluble only in strong (15 to 50 per cent.) sodium hydroxide solution and resistant to organic acids and to mineral acids except concentrated sulphuric and nitric. At this point, Mr. Potter called upon the operator to commence the sound film, of which the following is a synopsis:—

BAKELITE

Under the title given above, the sub-title "A material of infinite uses" appeared. The first picture was of a laboratory, and showed a worker adding formaldehyde to phenol. Stages in the polymerisation process were described and demonstrated. Then followed flashes from the works—storage tanks for raw material, transfer by vacuum pump to process rooms, cooling of hot resinoid in trays, and so on. The mixture was shown passing over hot rollers, the resulting brittle sheets being ground up, screened and packed in drums for dispatch. The standards of the British Plastics Association for textile strength, dielectric capacity, etc., were enumerated. Next the preparation of laminated sheet material was followed through various stages. Finally, articles in everyday use (hair driers, vacuum flask casings, balances, weight boxes, bottle caps, safety razors and many others) were shown in process of manufacture and subsequently in actual use.

Discussion

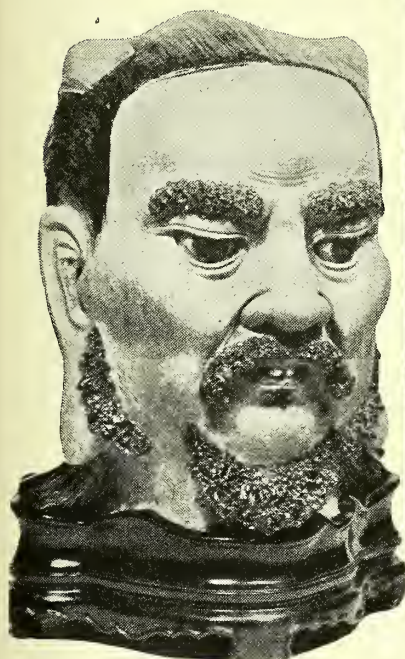
At the conclusion of the film the chairman invited questions from the audience, and those which followed, although numerous, were answered with commendable clarity and directness. Mr. H. Berry (Dean of the School of Pharmacy) was interested in the reactivity of the plastic materials. He asked whether the lecturer would give any indications as to how reactive or inert they were. He had himself come across one or two instances in which a resinoid material—he could not say which one—appeared to react with the substance contained. An example was a fatty-base ointment containing a phenolic substance such as resorcin. Formaldehyde, it had been sug-

gested, caused reduction of mercury compounds in contact with resinoid materials. How was it possible, he asked, to distinguish the different types of plastics? In reply, Mr. Potter stated that pure phenolic resinoid was practically unaffected by all substances except those which he had previously named, but it must be remembered that phenolic resinoid containers were mixed with a filler (generally sawdust). If the resinoid and the filler were intimately mixed and efficiently subjected to treatment, the result should be an impervious material. Industrially, however, it was not possible to achieve perfection. One practical remedy in manufacture was to use a mineral filler, giving a product which was perfectly satisfactory with materials of ordinary strength. Improvement would gradually come about by insistence on the part of users on mineral-filled plastics. There were two means of distinguishing the type of resinoid plastic used in a container: one by actual chemical test and the second by burning. One trouble with wood-filled plastic was that during the condensation the wood absorbed moisture, causing slight expansion, with adverse effect on the surface. Colour troubles were frequent but were gradually being surmounted, and non-bleeding colour materials were now available in limited quantities. The next questioner inquired whether resinoid containers could be regarded as suitable for foodstuffs. To this the reply was that it was possible to obtain satisfactory materials. Resinoid coatings were actually in use for milk food containers. A further question related to the use of resinoid materials for laboratory benches and to the adaptation of transparent resinoid materials to pharmaceutical vessels. Mr. Potter stated that the thickest sheet he had ever seen was 7 in. thick and 7 ft. by 3 ft. in area. For laboratory benches nothing was more suitable than slate, with teak perhaps second. Resinoid had the advantage of being cheaper but the disadvantages mentioned earlier. Some of the urea materials were practically water-white. They were, however, opposite to the phenol resinoids in properties, being readily attacked by acids but more resistant to alkalis. It was doubtful if resinoid materials were suitable for measures generally, but he exhibited a beaker and rod which had been made expressly for use with hydrofluoric acid. A question was asked as to the effect of moist heat at temperatures of 100° to 120° C. The moulded forms, said Mr. Potter, exhibited slight etching of the surface at 100°. The mineral-filled product showed better results. A completely resistant material was theoretically possible. Mr. Potter was next asked whether the cracking of bottle caps was due chiefly to the filling used. He replied that this was so. Mineral-filled caps were more brittle, but more suitable generally, although less often used. The percentage of wood fibre used in phenol-formaldehyde resins was around 50 per cent.. The proportion of mineral filler was roughly the same. He had no recollection of serious complaint in regard to the use of phenolic plastics in the tropics, although it was true that plastics continue to harden for some time after manufacture.

A vote of thanks was moved by Mr. Berry, who stated that the problem in relation to the use of resinoid materials in pharmacy was the same old problem that cropped up time and time again. It was the consideration which forbade the mixing of confection of roses in iron mortars and prompted specification of the qualities of glass, etc., to be used for storing certain products. The reactivity of the substance was vitally important to pharmacists. Mr. Berry mentioned that he had had some experience with the use of black resinoid caps in autoclave conditions, and there was no doubt that the material was really serviceable. Mr. W. S. Howells seconded. In replying, Mr. Potter warned his hearers to be suspicious of any resinoid material of paper thinness.

CALENDARS.—A monthly tear-off calendar (15½ in. by 11 in.) received from CANADA FOILS (BRITAIN), LTD., is attractively surfaced in metallic foil bearing an illustration, in white and black, of the Peace Tower, Ottawa. The remainder of the design is in green. An engagement calendar (15½ in. by 8½ in.) by ORMERODS, LTD. (label printers), Rochdale and London, carries a design in several colours. ALLONDON, S.A. (synthetic perfume manufacturers), Geneva and London, have issued a combined desk calendar and engagement pad, handsomely bound in brown morocco-finish leather cloth, with pencil.

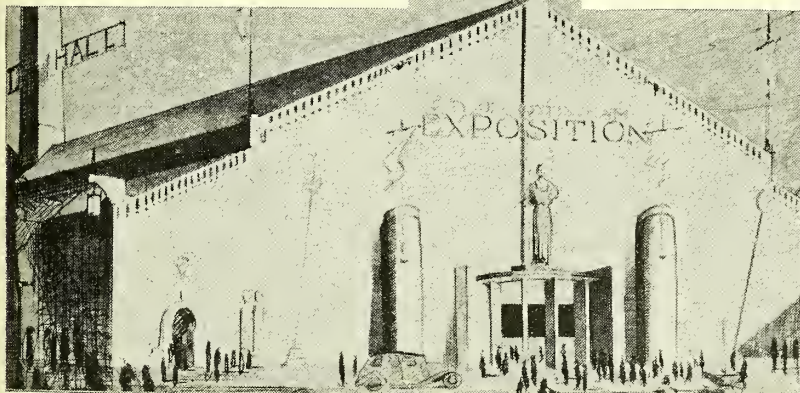
News in Pictures



GOD OF MEDICINE—Head of pre-historic Chinese Emperor Sheng N'geng (Ming dynasty), revered as God of Medicine and Agriculture. *From an Exhibition of Chinese Art, 9 Conduit Street, London, W.1*



ROYAL EXCHANGE FIRE ANNIVERSARY—One hundred years ago on January 10 the Royal Exchange, London, was destroyed by fire. The illustration, which is from a print in the Guildhall Library, is reprinted from a history of the Royal Exchange in the *C. & D. Annual Special Issue*, June 27, 1936.



CITY OF NOTTINGHAM EXPOSITION—Architect's sketch of main building for Exposition to be held on Goose Fair site in July



CASTLE ARCHWAY IN LABORATORY—Beneath Zion Chapel, Lansdown Hill, Southampton, which is used as a store-room by Randall & Wilson, chemists, High Street, are fragments of the original walls and archway of an old castle. The castle was the subject of an illustrated article in a recent issue of the "Southern Daily Echo," Southampton.



To: L. P. GLASER, M.P.S., 62 Plein Street.

Please Supply —

Small size Tin(s) Andrews Liver Salt	@ 13
Large ..	@ 23
Small size Tube(s) Maclean's Peroxide Toothpaste	@ 9d.
Large ..	@ 13
Toilet Size Tablets Wright's Coal-Tar Soap	@ 9d.
Bath ..	@ 16

Please charge my Hotel Account Signature ..

Cash for .. herewith Room Number ..

ELGIN HOTEL.

HOTEL CHEMIST SERVICE—What may be regarded as preferable to the automatic machines of English hotel lobbies is the sample box, *left*, of a Johannesburg, South Africa, hotel, with order form for further supplies from a local pharmacist.

A New Food and Drugs Bill

WITH the publication of the Third Interim Report of the Local Government and Public Health Consolidation Committee a further step has been taken in the work of the consolidation of the public health law. The Report (H.M. Stationery Office, 1s.) is accompanied by a draft Bill (1s. 6d.), and deals, among other matters, with the law relating to food and drugs. The Committee, which was originally constituted in 1930, point out (paragraph 4 of the Report) that the existing law relating to food is directed towards two distinct objects, the safeguarding of public health and the protection of purchasers from fraud and deception, and that, while in the main the public health code deals with the first of these objects and the sale of food and drugs code with the second, the legislature has not been entirely consistent and there are many provisions of a public health character in the latter code. The Committee felt no doubt that, as a matter of practical convenience, the two codes should be combined in a single measure, and for this purpose their terms of reference were enlarged. For reasons indicated in paragraph 4 of the Report, the draft Bill, unlike the two earlier local government and public health Bills prepared by the Committee extends to London. Its 102 clauses take the place of some 240 sections of existing Acts. The changes which the Bill would effect are dealt with in detail in the Report and the Appendix thereto. Among the more important may be mentioned the alteration in the definition of "Food and Drugs authorities," i.e., the authorities to be entrusted with the administration of the provisions of the Bill dealing with the adulteration of food and drugs. The Report discusses this point at some length (paragraphs 23-27).

Summary of the Bill

The Bill is divided into six parts, as follows: (1) General provisions as to food and drugs; (2) milk, dairies and artificial cream; (3) Other kinds of foods; (4) Importation of certain produce; (5) markets, slaughter-houses and cold-air stores; (6) general and miscellaneous. The clauses of chief interest to the drug trade are given below:—

COMPOSITION OF FOOD AND DRUGS

1.—(1) No person shall add, or direct or permit any other person to add (a) any substance to any food so as to render the food injurious to health; or (b) any substance to any drug so as to affect injuriously the quality or potency of the drug, with the intent that the food or drug may be sold in that state.

(2) No person shall sell any food or drug to which any substance has been so added.

2.—(1) No person shall abstract, or direct or permit any other person to abstract, from any food any constituent thereof so as to affect injuriously the nature, substance or quality of the food with intent that it may be sold in its altered state—(a) without notice to the purchaser of the alteration; or (b) whether with or without such notice, if in that state the food does not comply with any relevant provisions contained in regulations made under this Act for prescribing the composition of food.

3.—(1) If a person sells to the prejudice of the purchaser any food or drug which is not of the nature, or not of the substance, or not of the quality, of the food or drug demanded by the purchaser, he shall, subject to the provisions of the next succeeding section, be guilty of an offence under this Act.

(2) Where regulations made under this Act contain provisions prescribing the composition of, or prohibiting or restricting the addition of any substance, any food, a purchaser of that food shall, unless the contrary is proved, be deemed for the purposes of this section to have demanded food complying with the provisions of the regulations.

(3) In proceedings under this section it shall not be a defence to allege that the purchaser bought for analysis or examination and therefore was not prejudiced.

4. In proceedings under the last preceding section it shall be a defence for the defendant to prove—

(1) where some substance has been added to the food or drug in question—(a) in the case of a food, that the substance is not, and its addition has not rendered the food, injurious to health; or, in the case of a drug, that the addition has not affected injuriously the quality or potency of the drug; and (b) that the addition was not made fraudulently to increase the bulk, weight or measure, or conceal the inferior quality, of the food or drug; and (c) either—(i) that the addition was required for the production or preparation of the food or drug as an article of commerce in a state fit for carriage or consumption; or (ii) that a label satisfying the requirements of the next succeeding section was attached to, or printed on the wrapper or container of, the article sold;

(2) where some constituent has been abstracted from the food or drug in question—(a) that the abstraction has not rendered the food injurious to health, or, as the case may be, affected injuriously the quality or potency of the drug, and was not made fraudulently to conceal the inferior quality of the food or drug; and (b) either—(i) that the abstraction was required for the production or preparation of the food or drug as an article of commerce in a state fit for carriage or consumption; or (ii) that a label satisfying the requirements of the next succeeding section was attached to, or printed on the wrapper or container of, the article sold;

(3) where the food or drug in question is the subject of a patent in force, that it was supplied in the state required by the specification of the patent;

(4) where the food or drug in question contains some extraneous matter that the presence of that matter was an unavoidable consequence of the process of collection or preparation;

(5) that the article supplied was a proprietary medicine and was supplied in response to a demand for that medicine;

(6) where the proceedings are in respect of diluted whisky, brandy, rum or gin, that the spirit in question had been diluted with water only and that its strength was still not lower than thirty-five degrees under proof: Provided that—(a) none of the defences specified in paragraphs (1) to (5) of this section shall be available in the case of any food which does not comply with any relevant provisions contained in regulations made under this Act for prescribing the composition of, or prohibiting or restricting the addition of any substance to, food; and (b) nothing in paragraph (6) of this section affects the provisions of section fourteen of the Finance Act, 1935, with respect to the dilution of spirits after computation of duty.

5.—(1) A label shall afford no defence under paragraph (1) or paragraph (2) of the last preceding section unless the following requirements are satisfied:—(a) the label must state explicitly what substance has been added to, or what constituent has been abstracted from, the food or drug; and (b) it must be of adequate size, and have the notice of addition or abstraction distinctly and legibly printed or written and conspicuously visible.

(2) Notwithstanding anything in the last preceding subsection, a label which bears a registered trade mark incorporating a statement that the article in question is mixed, or which has been continuously in use since the first day of January, eighteen hundred and ninety-three, and bears such a statement, shall, as respects a mixture, be deemed to satisfy the requirements of that subsection.

(3) The Comptroller-General of Patents, Designs and Trade Marks shall not register any trade mark purporting to describe a mixture, unless it incorporates such a notice as is required by subsection (1) of this section in the case of a label.

6.—(1) A person who gives with any food or drug sold by him a label, whether attached to or printed on the wrapper or container or not, which falsely describes that food or drug, or is otherwise calculated to mislead as to its nature, substance or quality, shall be guilty of an offence under this Act, unless he proves that he did not know, and could not with reasonable diligence have ascertained, that the label was of such a character as aforesaid.

(2) A person who publishes, or is a party to the publication of, an advertisement (not being such a label so given by him as aforesaid) which falsely describes any food or drug, or is otherwise calculated to mislead as to its nature, substance or quality, shall be guilty of an offence under this Act:

Provided that in proceedings under this subsection it shall be a defence for the defendant to prove either—(a) that he did not know, and could not with reasonable diligence have ascertained, that the advertisement was of such a character as aforesaid; or (b) that, being a person whose business it is to publish, or arrange for the publication of, advertisements, he received the advertisement for publication in the ordinary course of business.

In any such proceedings as aforesaid against the manufacturer, producer or importer of the food or drug, it shall rest on the defendant to prove that he did not publish, and was not a party to the publication of, the advertisement.

Clause 7 deals with presumptive evidence as to injurious nature of food, and Clause 14 relates to by-laws with respect to wrapping and handling of food and its sale in the open air.

ADMINISTRATION AND LEGAL PROCEEDINGS

The appointment of Public Analysts, their powers, responsibilities, duties and remuneration are dealt with in Clauses 66 to 70, which also deal with the rights of purchasers to submit samples for analysis and the procedure to be followed in the taking of samples.

Clauses 79 to 85 deal with legal proceedings taken under the Act and Clause 86 with compensation. Clause 100 concerns interpretation and states that "drug" includes medicine for internal or external use; "food" means any article used as food or drink for human consumption, other than drugs or water.

Insurance Act Dispensing

ENGLAND AND WALES

Derbyshire.—There are 192 chemists in the county registered to supply medicines. During the past year payments to chemists amounted to £12,450 for ingredients and appliances and £14,141 for dispensing fees. Prescriptions dealt with totalled 840,031.

Rotherham.—The total number of prescriptions dispensed during July was 9,432, at a total cost of £322, the cost of each prescription being 8.2d. The Committee and the Pharmaceutical Committee have agreed that for the months of January, February and March three chemists' shops will open in the town on Thursdays from 7 p.m. to 8 p.m.

Surrey.—The Insurance Committee decided at a recent meeting to report to the Pharmaceutical Society a case of non-observance of N.H.I. contract regulations. The chemist concerned, the registered pharmacist for a limited company, was not on the premises when the prescription was presented and dispensed. The Committee's inspector reported that he presented the prescription at 3.50 p.m. and the pharmacist did not arrive until 4.30 p.m., the prescription having been dispensed in the meantime by the managing director, who stated that the pharmacist had gone to the bank. The prescription, which contained a poison, was correctly dispensed from a stock mixture. A fine of £2 was recommended. In another case, involving a deficiency of hydrochloric acid, the chemist stated that he had had no dilute hydrochloric in stock and must have miscalculated in diluting the strong. The Committee declared that the dilute acid could not be properly prepared in a few minutes and the chemist was not justified in making it extemporaneously. They recommended a fine of £1. A number of other fines for carelessness were recommended and chemists cautioned.

At a previous meeting the Committee had recommended the Ministry to fine a chemist £2 in connexion with the dispensing of a poison. The Ministry had since written that, in view of the fact that disciplinary action had been taken against the chemist on several previous occasions, the fine should be £5.

The Committee passed a resolution that when a decision of the Ministry was at variance with that of the Committee the Committee should be asked for its observations before a final decision was made.

St. Helens.—Up to July 1 this year the number of insured patients on the doctors' lists was 43,757, an increase of 808. Chemists were paid £5,784 in respect of 185,517 prescriptions, an increase of £250.

SCOTLAND

Coatbridge.—At the quarterly meeting of Coatbridge Burgh Insurance Committee, recently, a minute was submitted giving the statistical statement relating to prescribing of doctors in this area for the quarter ended March 30, 1937, which showed that there had been issued 7,999 forms at a total cost of £370 9s. 10d., the average price of these forms being 11.116d. and the cost per person on panel 5.5159d.—Doctors resident in the area, during the three quarters ended September 30, issued 20,372 prescription forms, at a total cost of £999, the average prescription price being 11.527d., and the average cost per person on panel 14.278d.

Stirling.—The Insurance Committee recently considered a complaint by a doctor against a chemist who supplied powder in a small soap box. The doctor forwarded the box which the patient had passed to him with a complaint that the powder tasted of soap. Magnesium carbonate, the powder supplied, had absorbed the flavour from the box. The chemist stated that he had dispensed similar stomach powders in empty soap boxes for many years past, without complaint. Each box was lined with white paper before the powder was put in. A chemist member of the committee said he had never seen anything like this put out of a chemist's shop. The practice was a disgrace. The clerk said that there was nothing in the regulations about boxes. The chemist has been warned that the practice must be discontinued at once.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1938, p. 302.

(From "The Trade Marks Journal," December 15, 1937)

- "DREXPA" ; for medicinal chemicals (3). By A. Peel (W. I. Jones), 7 Half Moon Lane, London, S.E.24. 581,427.
- "VISYNERAL" ; for medicinal chemicals (3). By B. I. Chambers, 55 Airedale Avenue, London, W.4. 581,449.
- "FRACT-O-PLAST" ; for plaster of paris bandages (11). By A. de St. Dalmas & Co., Ltd., Junior Street, Leicester. 580,943. (Associated.)
- Diamond-shaped emblem with letters "B. B. & Co." and "RED DIAMOND BRAND" (exclusive use of letters disclaimed) ; for bandages, etc., and sanitary towels (11). By Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, London, E.6. 581,062. (Associated.)
- Two heads silhouetted ; for perfumery, etc. (48). By M. Schwartzkopf, 36-42 Alboinstrasse, Berlin-Tempelhof, Germany. 568,760.
- "MIN-ROSA" ; for cosmetics (48). By E. Maurer, Fairview Place, London, S.W.2. 579,395.
- Illustrated label and name "TSCHANBAHL" ; for cosmetics (48). By E. J. Pawlata, Plankengasse 4, Vienna, 1. 578,148.
- "DUALEX" ; for perfumery, etc. (48). By A. Finlay, Ltd., Victoria Square, Belfast. 581,424.
- "VIO-LAXIL" ; for toilet deodorants (48). By Pecorone, Moliné et Cia, Rosario, Santa Fé, Argentina. 577,501.

(From "The Trade Marks Journal," December 22, 1937)

- "ALELEX" ; for photographic chemicals (1). By Imperial Chemical Industries, Ltd., Millbank, London, S.W.1. 580,750.
- "PHILICOLOR" ; for photographic chemicals (1). By Philips Lamps, Ltd., 145 Charing Cross Road, London, W.C.2. 580,268. (Associated.)

- "MINIGRAN" ; for photographic chemicals, etc. (1). By Trucolour Film, Ltd., 3 London Wall Buildings, London, E.C.2. 581,560.
- Triangular design ; for agricultural chemicals (2). By J. Swain, Ltd., Swains Seed House, The Grove, Bristol. 578,561.
- "MOORSOL" ; for insecticides (2). By Moorson Products, Ltd., Gordon Works, Broughton Lane, Manchester, 7. 579,326.
- "METHASAN" ; for fungicides and bactericides, etc. (2). By British Dyestuffs Corporation, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 581,540.
- Diamond shape with words "RED DIAMOND BRAND" ; for veterinary chemicals, etc., excluding disinfectant soap (2) ; for medicines, excluding medicated waters ; for perfumery, excluding soap (48). By Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, London, E.6. 581,060/061/064. (Associated.)
- "OFRETA" ; for veterinary chemicals, etc. (2) ; for perfumery, etc. (48). By W. M. Tearle, 23A Liverpool Road, Luton. 581,412/414. (Associated.)
- "VITOS" ; for medicated preparations for eyes, teeth and feet (3). By Vitos Manufacturing Co., 229 Lavender Hill, London, S.W.11. 580,855.
- "FIBROSAN" ; for medicinal chemicals (3). By Petrolagar Laboratories, Ltd., The Factory, Braydon Road, London, N.16. 581,607.
- "URGINAR" ; for medicines, etc. (3). By Asta A.-G. Chemische Fabrik, 83 Bielefelderstrasse, Brackwede, Germany. 581,276.
- "VALLO-RHEUM" ; for medicated preparations for rheumatism, etc. (3). By Surrey Drug Houses, Ltd., 35 Eveline Road, Mitcham. 581,348.
- "OCTAVARIN" ; for all goods (3). By F. Riddell, Ltd., Warwick Street, London, W.1. 579,176.
- "ZENTUM" ; for medicinal chemicals (3). By Lionels, Ltd., 26 Bow Street, Lisburn, N. Ireland. 579,223.

Trade Notes

NEW KEPLER DISPLAY SCREEN.—A new Kepler display screen to further the sales of Kepler cod-liver oil with malt extract



has been produced in colour, the centrepiece of the stand illustrating a cod-fish on hook, and this being flanked on both sides by dummy packs of the product. This show-card (No. 070) is issued free on application to Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1.—"WELLCOME"

Calcium Mandelate Compound has been introduced by Burroughs Wellcome & Co. for the treatment of urinary infections. It is a powder, free from the disagreeable taste characteristic of sodium and ammonium mandelates. It is easily taken in water, and gives rise to a minimum of digestive disturbances. The preparation is issued in bottles of 125 grammes, with measure and test papers. Further particulars may be obtained on application.

SYNTHETIC EPHEDRINE "KNOLL."—Pure alkaloid and salts of synthetic ephedrine are advertised in this issue by Knoll, A.G., manufacturers of fine chemicals, Ludwigshafen-on-Rhine. It is stated that these chemicals are of the highest purity and in every way equal to the national product. They conform to the characters and tests of the B.P.

GLAXO PRODUCTS.—We are informed by Glaxo Laboratories, Ltd., Greenford, Middlesex, that Ostocalcium tablets have been improved as regards flavour and friability, while at the same time the calcium content has been increased. These tablets now contain $2\frac{1}{2}$ grains of calcium phosphate in addition to the original $7\frac{1}{2}$ grains of calcium sodium lactate and 500 international units of Vitamin D. This is said to be an exceptionally high content of calcium for a preparation of this class. Bonus parcels of these tablets are offered from January 1 to January 30, each parcel showing a substantial per cent. discount. Show material is included, and chemists are invited to take advantage of these offers at this seasonable period. An additional display parcel of Syrup Minalex has also been introduced, which also shows a satisfactory rate of discount. Sulphanilamide tablets are available in two sizes— $\frac{1}{4}$ and $\frac{1}{2}$ gramme. Prices available on request.

NESTROVITE PRODUCTS.—Illustrated on this page are two preparations of a new product, Nestrovite, introduced by Roche



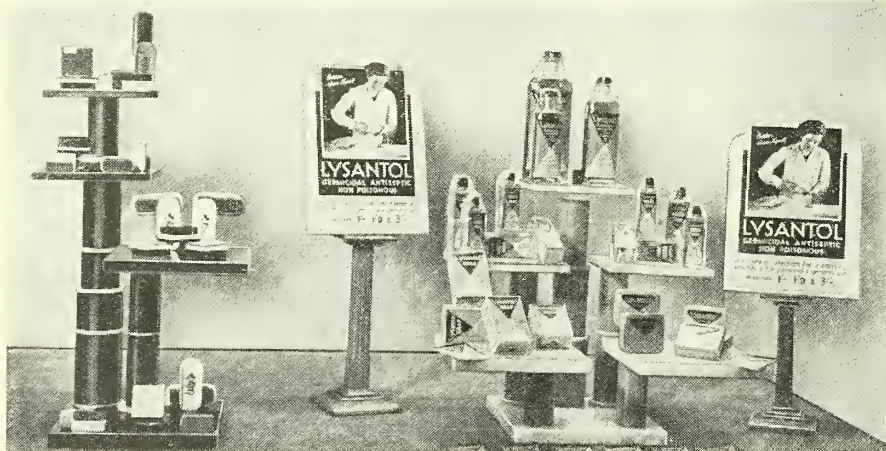
Products, Ltd., 51 Bowes Road, London, N.13. Nestrovite is a standardised vitamin concentrate containing four vitamins, A, B₁, C and D. It is obtainable in tablet form and as an emulsion, and a special introductory offer with window display terms is available. Special terms expire on February 28, and supplies may be obtained from the usual wholesalers. One teaspoonful of Nestrovite emulsion contains the equivalent of one teaspoonful of medicinal cod-liver oil, two teaspoonfuls of orange juice and sufficient vitamin B₁ to maintain normal development. Two Nestrovite tablets contain the equivalent of approximately one tablespoonful of medicinal cod-liver oil, two tablespoonfuls of orange juice, and an ample allowance of vitamin B₁. Further details may be obtained on application.

AGENCY FOR COUTURIEUX PRODUCTS.—Savory & Moore, Ltd., 61 Welbeck Street, London, W.1, announce their appointment as sole agents for the French house, Couturieux, Paris. The two products to which special attention is being directed are Panglandine and Glesol, which are issued as capsules in boxes of 50. Panglandine is a pluriglandular product introduced for the basic treatment of endocrine disturbance. Glesol is described as the rational treatment of furunculosis and other staphylococcal infections with glutinised capsules. Each capsule contains yeast, colloidal tin, colloidal sulphur, B. glycobacter and B. acid lactic.



DEE OIL.—The Dee Oil Co., Ltd., Delta Works, Irlam Road, Bootle, Liverpool 20, inform us that a change in the packing of Oleum Deelineae has been made: the bottles are smaller and carry a black screw bakelite cap. Alteration has also been made in the labels, and a brochure is included in each carton which is unaltered. These changes apply to the two small sizes; the large package remains the same.

Permastand Variations



To demonstrate the versatile character of the Permastand (C. & D., October 30, p. 510), the two miniature displays illustrated were set up. The show of Addis nailbrushes (left) was arranged on a stand composed of the regular number of Permastand components, the colours being black and white. In the display of Lysantol (right), red and white components were used. Rather more were required than are contained in the standard set, because the composite stand incorporates five platforms, each on its own supporting column.

Births

Notices for insertion in this column must be properly authenticated.

McDOWALL.—At "Rolleston," East Newport, Fife, on December 31, 1937, the wife of Ronald McDowall, M.P.S., of a daughter.

Marriages

ASHFORD—MEDFORTH.—At Queen Street Methodist Church, Withernsea, on January 5, Arthur Vernon Ashford, M.P.S., Northampton, to Edith Mary Medforth.

STRINGER—WHITE.—At Shipley Congregational Church, on January 5, Leslie Stringer, to Clara White, M.P.S., daughter of Mr. J. A. White, M.P.S., Shipley.

Deaths

FORRESTER.—At Hadleigh, Suffolk, on January 7, Mr. Fred Arthur Forrester, M.P.S., aged forty-three. Mr. Forrester had been in business at Hadleigh since 1921. He was a Past-Master of Virtue and Silence Lodge of Freemasons, No. 332, and a past provincial officer of Suffolk.

GOUGH.—On January 4, Florence Adelaide, the wife of Mr. J. H. Gough, Ph.C., 58A The Grove, Ilkley. At the time of the British Pharmaceutical Conference in Leeds in 1934 Mrs. Gough had recently undergone a serious operation, but in spite of this she took no small part in assisting her husband, who was chairman of the Local Committee, to make the meeting so successful, as all who attended it will recall. The funeral took place at Lawnswood, Leeds, on January 6. Many pharmacists were prevented by illness from attending as they had planned, but those present included Councillor H. Hodgson and Mr. W. Eaddie (chairman and vice-chairman respectively of the Pharmaceutical Society Branch), Mr. T. Shooter (of the N.P.U. Branch), and Messrs. Ralph and E. Branson, representing Reynolds & Branson, Ltd. (of which company Mr. Gough is a director). By request of Mrs. Gough there were no flowers.

HEARNshaw.—At his home, 40 West Street, Leicester, on January 7, Mr. Arthur Donington Hearnshaw, M.P.S., aged seventy-three. Mr. Hearnshaw was proprietor of the Welford Road Pharmacy, Leicester, for over forty years, retiring two or three years ago. He was president of the Leicester and Leicestershire Chemists' Association in 1911, after holding office as treasurer and secretary. The funeral service on January 9, at Bishop Street Methodist Chapel, was attended by many local pharmacists, including Messrs. Clark, Page, Rimmington, Ward, Young, and F. Purse (secretary of the local Branch of the Pharmaceutical Society).

MACDONALD.—At 29A High Street, Inverness, on January 3, Mr. William Macdonald, M.P.S., aged sixty-eight. Mr. Macdonald had been in business in Inverness for forty years.

RANSFORD.—On January 10, Mr. Leonard Ransford, M.P.S., formerly of Folkestone and Stoke Newington, London, N., aged fifty-eight.

RENDLE.—At Leatherhead, Surrey, on January 11, Mr. Alfred Barton Rendle, D.Sc., F.R.S., for many years Keeper of the Department of Botany at the British Museum of Natural History, aged seventy-two.

STARKEY.—Near Beit Jibrin, Palestine, on January 10, Mr. James Leslie Starkey, aged forty-five. Mr. Starkey, who recently opened his sixth season of excavation at Tell Duweir, the Biblical Lachish, for the Wellcome-Marston Expedition, of which he was director, was travelling by car when he was shot by Arabs. In the *C. & D.*, 1936, II, 110, there was an illustrated account of an archaeological exhibition at the Wellcome Research Institution, London, N.W.1, concerned with new discoveries in Palestine by Mr. Starkey, under whose direction the Wellcome Archaeological Research Expedition had been working.

STURTON.—Recently, Mr. John Gilbert Sturton, Ph.C., Peterborough, aged seventy.

SWANSON.—At Reading, on January 2, Mr. Alexander James Robertson Swanson, M.P.S., Erleigh Road, aged sixty-five (see p. 58).

WALSH.—On January 5, Mr. David Walsh, M.P.S.N.I. Mr. Walsh, who qualified in 1926, carried on a pharmacy at Newry Street, Banbridge, co. Down, for many years.

WILLIAMS.—Suddenly, from heart failure, on January 5, Mr. W. J. Williams, who was for over forty years with Goodall, Backhouse & Co., Ltd., manufacturing chemists, Leeds. For many years Mr. Williams was a member of the Council for the P.A.T.A. and a member of the Pricing Committee of the Northern Wholesale Druggists' Association. He retired from business at the beginning of June 1937.

Personalities

MR. A. GREENWOOD WATKINS, M.P.S., Reading, recently gave an address entitled "At the Sign of the Pestle and Mortar" before the local Rotary Club.

MR. W. NORMAN BOORNE, M.P.S., who has been a member of the staff of Evans, Gadd & Co., Ltd., manufacturing chemists, Exeter, for several years, has joined the Board of the company.

MR. L. W. RAGG, Ph.C., who has been for some years on the staff of Stafford Allen & Sons, Ltd., at Long Melford and London, has been admitted to the Associateship of the Institute of Chemistry.

In connexion with the Silver Jubilee meeting of the Indian Science Congress Association (*C. & D.*, January 8, p. 46) it is interesting to note that at the first Congress, held in Calcutta in January 1914, the treasurer and secretary was Dr. David Hooper, Ph.C., who was at that time Economic Botanist to the Botanical Survey of India. Dr. Hooper has been a contributor to *THE CHEMIST AND DRUGGIST* on many occasions.

Coming Events

Tuesday, January 18

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Lecture by Dr. R. F. Corran on "Recent Research on Anæmias."

N.P.U., North London Branch, North Library, Manor Gardens, Holloway Road, N.7, at 8.30 p.m. Address by Miss B. Sharples on "The Other Side of the Picture."

Pharmaceutical Society, Durham County Branch. Annual re-union, whist drive and dance.

Thames Valley District Pharmacists' Association, Three Fishes Hotel, Kingston-on-Thames, at 8.45 p.m. Lecture by Dr. A. Crawford on "Minerals in Nutrition."

Wednesday, January 19

Birmingham Pharmaceutical Association, Kinzle's Café, Union Street, Birmingham. Supper and theatre party.

Manchester Pharmaceutical Association, Midland Hotel, at 7.45 p.m. Annual whist drive and dance.

N.P.U. Anglesey, N. Caernarvonshire and Colwyn Bay Branch, British Hotel, Bangor, at 3 p.m. Address by Mr. W. J. Tristram on "The Work of the N.P.U."

N.P.U. West London Branch, Stewart's Restaurant, 50 Old Bond Street, W.1, at 8.45 p.m. Address by Mr. G. A. Mallinson, "The Prestige and Unity of Pharmacy."

Pharmaceutical Society, Reading and District Branch, Cadena Café, Broad Street, Reading, at 8 p.m. Annual dinner and dance.

Thursday, January 20

North London Pharmaceutical Association, Small Queen's Hall, Langham Place, W.1, at 8 p.m. Supper-dance.

Pharmaceutical Society, Coventry and Warwickshire Branch, King's Head Hotel, Hertford Street, Coventry, at 8 p.m. Annual dinner.

Pharmaceutical Society, North-East London Branch, Smith's Restaurant, Bishopsgate (adjoining St. Botolph's Church). Meeting. Subject: "Air Raid Precautions and Anti-gas Treatment."

Friday, January 21

Pharmaceutical Society, 36 York Place, Edinburgh, at 8 p.m. Lantern lecture by Dr. C. G. Anderson on "Chemistry and Immunity."



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THE CHEMIST AND DRUGGIST

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Proprietaries and N.H.I. Prescribing

In last week's *C. & D.* (p. 43), attention was directed to the importance of pharmaceutical committees exercising a careful watch on excessive prescribing. The consensus of opinion among chemists appears to be that proprietary articles constitute a very important factor in regard to discounting chemists' accounts. There is, of course, nothing in the Insurance Acts or Regulations to prohibit a doctor from prescribing a proprietary article, but he is expected in all his prescribing to have due regard for economy. The whole question hinges around the words "adequate treatment." If a practitioner considers that the National Formulary contains nothing suitable for his patient, then he is likely to fall back on some proprietary article, of which it may be added he may know little except what he is told on the pamphlets and advertisements issued to promote the sales of such medicaments. The following is an extract from the National Formulary which contains some notes for the guidance of practitioners in prescribing:—

Proprietary preparations should not be prescribed unless the practitioner has satisfied himself that the therapeutic object aimed at cannot be attained by the use of non-proprietary remedies. Efficient substitutes for proprietary preparations are usually available and a practitioner who has prescribed a proprietary preparation for which a recognised substitute of lower cost is available, and who has failed to give such substitute a trial, may, in the event of an enquiry into his prescribing, have difficulty in justifying his action in prescribing the more costly preparation.

In 1929 an Advisory Committee reported to the Ministry of Health on the definition of drugs for the purpose of medical benefit, and an attempt was made to classify various preparations. The Advisory Committee pointed out that the prescribing of proprietary preparations, the composition of which is not disclosed, is undesirable, and that only

the most exceptional circumstances could justify a practitioner in prescribing them. It cannot be too often emphasised that there are no standards offered or required for proprietary articles. In this connection, it is in no way suggested that the ethical medicaments manufactured by the many firms of repute are in any way below the standard usually adopted in regard to ordinary drugs, but there must always be a doubt in regard to proprietary articles in general.

With regard to liver extracts, the Advisory Committee suggested that a standard should be fixed for these extracts and, if that were possible, the Committee would record the prescribing of any preparation which did not conform to the standard as most undesirable. Another type of proprietary medicine which calls out for standardisation is vitamin preparations, the number of these now available being very considerable. We are credibly informed that insurance practitioners prescribe these preparations in increasing quantities. In these products, therefore, there is also an urgent need for standardisation. Organotherapy in general continues to grow as medical science and knowledge proceeds, but it is perhaps unfortunate to find that in the opinion of competent medical authorities the bulk of the glandular preparations sold in compressed form are of little or no therapeutic value. The classical exception, is, of course thyroid gland, which is active when given by the mouth. Some of the glands take effect only when injected, yet there are numerous preparations of such glands for oral administration.

In regard to the many proprietary chemical products which are well-known chemicals sold under a trade mark name, a similar state of affairs exists. The chemist who has to stock, say, six varieties of the same drug because the medical practitioners favour different makers is unfortunate, but he needs more than commiseration, and it is in clearing up such anomalies as these that the Pharmaceutical Committees can further help the panel chemist.

If the Drug Fund is to remain unchanged, and the extraordinary discounting clause is similarly to continue, some steps must be taken to safeguard the fund from still further deductions. Proprietary articles of unknown origin should not be tolerated at all, but by instituting standards for certain classes, such as vitamin products, glandular preparations, liver extract and chemicals, it should be possible to continue the production of high-grade medicaments and at the same time considerably lessen the drain upon the Drug Fund.

Solving the Medicine-Stamp Problem

In a recent issue of "The New Statesman and Nation" a writer comments somewhat scathingly in accordance with custom upon what he describes as "Patent Quackery." The general theme of the article is a familiar one, but in view of the approaching Budget, his solution of the admittedly very difficult problem is of some interest. The intricacies of the position have, we believe, been fully dealt with in *The Chemist and Druggist Diary and Year Book*, 1938, and those chemists who have studied the extensive article contained in the *Diary* will no doubt be familiar with the problems which hedge the subject round. It may be recalled that at a recent meeting held at Bolton, the Secretary of the Pharmaceutical Society drew attention to the possibility of proposals being made to include Medicine-Stamp Duty in modified form in the next Budget. Unfortunately, such forecasts are not very helpful, since

they add nothing to what is common knowledge. The Medicine-Stamp Acts have been threatened with modification for many years, and one day something is bound to happen.

Referring to the article mentioned, the writer makes the following suggestion:—

The one solution that seems practicable is that which the Select Committee in 1914 recommended and the Committee of 1937 re-endorsed. A department of the Ministry of Health should be established with wide powers to control the manufacture and sale of patent medicines. All vendors should be compelled to register their products with that Department and reveal their constituents. The sale of any unregistered product should be made illegal, and no advertisement should be permissible whose text has not been passed by the Department as a reasonable assertion of what the product may be expected medicinally to achieve. A great extension of bureaucratic control over private enterprise? I can see no other alternative, little enamoured as I am of bureaucracy as such.

We do not know the writer's qualifications, but the solution is not so simple as he would have it appear. If manufacturers have to register a formula with a department of the Ministry of Health and reveal the constituents, then obviously it is unfair to ask them also to pay tax. Once the formula is revealed, whether it be publicly or to a department, it cannot be held to be a secret remedy. A better method would seem to be that adopted in America by the American Medical Association, which examines every proprietary medicine in the light of the claims made for it.

As we pointed out last year at the time of the Medicine-Stamp Acts Committee meetings, patent medicine duty was actually a tax on sales, and if medicines were to be taxed, there was no reason why other articles should escape taxation, especially so far as luxury articles were concerned. It is common knowledge that the revenue from proprietary medicines has been a dwindling one, especially since destamping came into fashion. In 1936, the total revenue from the sale of patent-medicine stamps was only £747,930. This is a small sum when the total value of the industry and the amount it pays extraneously are considered. If the steps taken to modify the duty are too drastic, then it is almost a foregone conclusion that the repercussion throughout the labour market would be considerable, and the loss of capital and wages would be enormously greater than the amount likely to accrue from increased incidence of duty. A tax on medicines is in these days an anachronism, and it would be simpler to abolish the duty and prevent unwarranted claims from being made for proprietary articles. There is no likelihood that the public will do without proprietary medicines. If it be granted that the credulity of the public is responsible for their success, then one may ask where does credulity end—certainly not at the £250 a year limit of income. Some of the most credulous members of the population are found in the medical profession, who in some cases are no more careful in what they prescribe than are the public in what they take. Psychologically, a medicament, the contents of which are unknown, may be more beneficial to the patient than one the nature of which he understands perfectly. This applies to all classes of the community. There are many proprietary medicines on the market to-day which are made from well-known formulas, some of which originated in the chemist's own dispensing department. They constitute what are

commonly known as home remedies, and may have as beneficial an effect as the "placebo" which is handed out by the million bottles to the members of the community who are insured under the National Health Insurance scheme.

Empire Cascara Sagrada

A LITTLE over twelve months ago a sample of bark from trees grown in Kenya reached London. We had an opportunity of inspecting this first specimen of Empire origin. It was nice clean, bright bark, but rather thin and quilly, some pieces being little more than of paper thickness. This enterprise was encouraged by The Imperial Institute who obtained trade and technical reports on the bark upon its arrival in this country. In their "Bulletin" (October-December, 1937), is published a brief history of the developments to date. The bark was examined with the following results: Moisture, 8.5 per cent.; ash, 6.5 per cent. and aqueous extract, 26.6 per cent. With the exception of the ash content this conforms to the B.P. (1932) requirements and also compares very favourably with the average quality of bark from the Pacific Coast. The Institute states that a quantity of the Kenya bark is being stored for a year by a manufacturing druggist who will, in due course, prepare an extract from it for physiological trial.

Experimental planting of the trees (*Rhamnus Purshiana*) was first undertaken by the Forestry Department of Kenya Colony in 1919 and since that time a number of planters have taken up the cultivation. The original trees, now approaching 20 years of age, should be cropping regularly and it is anticipated that the annual output will in the course of the next few years steadily increase and eventually become one of world importance. With its ideal climate, rich soil and adequate rainfall and low producing costs (except, perhaps, for transport) Kenya may become the leading Empire source for a good range of these natural products. The production of Pyrethrum, within the past decade, has been an outstanding success, with the crop increasing each year and finding a ready sale on its merits in the world's markets. The Imperial Institute is to be congratulated on its work in developing Empire resources in this manner.

O.K. for Sound

SELDOM is music heard in the lecture theatre at No. 17 Bloomsbury Square. So seldom, indeed, that more than one who rose to question or comment at the Society's evening meeting on Tuesday (reported on page 62 of this issue) described as unprecedented the musical accompaniment to the sound film projected. It may well have been so. To most of the thousands who in their time have passed through the notorious "funk room" the memories that linger are rather of soft voices than of melody. The innovation, however, is commendable, and offers boundless possibilities. It may give rise to conjecture upon the acoustic properties of the new building, for example. Will it be "O.K. for sound"? The apparent opulence of the carpets in some of our modern super-cinemas is said to serve the aural even more than the physical comfort of their patrons. If the demands of progress should necessitate a carpeted auditorium at Brunswick Square, what user, even among the ascetic student class, would raise objections? And if mechanical sound, why not television? Then, maybe, kindred Societies in the Dominions, which in the past have shown their regard for the parent Society in tangible gifts like the president's chair, may come closer and—who knows?—even provide a lecturer for some future evening meeting. One small doubt threatens our peace of mind in connexion with last Tuesday's meeting. Has the Pharmaceutical Society, itself a prosecuting body, unwittingly invited the attention of the authorities? Surely a licence is necessary for "public music, singing and dancing"!

Mandelic Acid and Mandelates in Medicine

By Alec Rae, Chief Pharmacist, Hospital for Sick Children, London, W.C.1

FEW introductions to the long range of therapeutic substances have met with such widespread adoption, or achieved such success, as that of mandelic acid and its salts, which is used for the treatment of bacterial urinary diseases. In 1931 A. L. Clark and H. F. Helmholz ("Proceedings Staff Meetings, Mayo Clinic," 1931, 6, 605) opened up a new method of combating these diseases by restricting the patient to a ketogenic diet, that is to say a diet with excess of fat but deficient in carbohydrates. This pioneer work was carried out in America, and afterwards tried in this country, favourable results being reported by Cabot ("Lancet," 1932, I, 1038) and Wilson ("Lancet," 1932, II, 961). Unfortunately the use of the diet was found to possess two great disadvantages. Firstly, it is necessary to keep the patient under strict observation, and, secondly, the diet is most unpleasant and sometimes nauseating. On this account steps were taken to identify the bactericidal agent present in, or formed by, the diet. A. T. Fuller ("Lancet," 1933, I, 855) approached the problem and found the substance to be β hydroxybutyric acid (a valuable discovery) but discounted by the fact that the administration of the acid is ineffective on account of its almost immediate and complete oxidation in the body. Attempts were then made to find some chemically allied substance, of a stable and non-toxic nature, possessing the necessary bactericidal powers under the conditions required. M. L. Rosenheim ("Lancet," 1935, I, 1032), examined the action of a number of hydroxy acids and found that mandelic acid had the requisite properties, with such definite action on bacillus coli that urine passed three hours after a dose of the acid had been taken would not support the growth of the organism, provided that the reaction of the urine did not exceed pH 5.5.

Mandelic Acid

Mandelic acid, $C_6H_5.CHOH.CO_2H$, occurs as a white crystalline powder, readily soluble in water (1 in 8) and alcohol (1 in 2). It is prepared by treating benzaldehyde with potassium cyanide and hydrolysing the cyanohydrin formed. Rosenheim found the necessary dose for an adult to be 3 gm. (45 gr.) four times a day. This amount is irritating to the stomach, so it is administered in neutral solution, obtained by the addition of sodium bicarbonate. The mixture may be rendered more palatable by the addition of syrup of orange or syrup of lemon; if the latter is used it must be neutralised first, to prevent the citric acid decomposing the sodium mandelate. A representative prescription is:—

Mandelic acid	45 gr. (3.0 gm.).
Sodium bicarbonate	24 gr. (1.6 gm.).
Syrup of orange	1 fl. dr.
Distilled water	to 1 fl. oz.

As previously mentioned, mandelic acid is effective in urine having a reaction of pH 5.5; in severe cases pH 5.3 is regarded as the maximum allowable. Regular daily tests are carried out on specimens taken in the early morning, using solution of methyl red as an indicator, as follows: 5 drops of the test solution are added to 2 mls of urine in a test-tube, when pH 5.3 to 5.5 produces a reddish-orange colour. If, however, the colour produced is yellowish-red the urine is insufficiently acid, which can be overcome by the administration of 1 gm. of ammonium chloride four times a day; on account of the difficulty in disguising its unpleasant taste the ammonium chloride should be dispensed in either capsules or cachets; it is dissociated in the body with the formation of urea and hydrochloric acid. The latter acts on the sodium mandelate to form mandelic acid and sodium chloride. Very occasionally the urine is found to be excessively acid, as shown by a red colour being obtained by the addition of the indicator; this is rectified by giving doses of sodium bicarbonate.

Sodium Mandelate

Sodium mandelate, $C_6H_5.OH.CHOH.COONa$, soon appeared on the market, to obviate the necessity of preparing it extemporaneously. It is a white crystalline powder with a slightly aromatic odour, readily soluble in water (1 in 3) and almost insoluble in alcohol. The dose is 3.4 gm. (50 gr.) four times a day, this amount being equivalent to 3 gm. of mandelic

acid. It was felt that the treatment had not yet attained perfection; very many patients required ammonium chloride, and this, while not being too unpleasant when taken for a short period, after a time caused nausea or even vomiting. Occasionally casts and albumin were found to be present in the urine, and Rosenheim ("Lancet," 1936, I, 769) considered the chloride to be responsible for these complications. Investigations were therefore carried still further.

Ammonium Mandelate

Ammonium mandelate, $C_6H_5.CHOH.COONH_4$, was tested clinically by R. E. Holling and R. Platt ("Lancet," 1936, I, 769), excellent results being obtained. The pure substance is in the form of white, very hygroscopic crystals, very soluble in water and alcohol. On account of its hygroscopic nature it is usually obtained commercially as a 50 per cent. aqueous solution. It may be prepared readily from mandelic acid by neutralisation with ammonium carbonate or strong solution of ammonia, the latter having the advantage that any excess of ammonia will be dispersed by the heat generated during the reaction. As 3.3 gm. (52 gr.) of ammonium mandelate is equivalent to 3 gm. of the acid, this amount is given four times daily. Liquid extract of liquorice masks its unpleasant taste, and the following prescription, in use at the Hospital for Sick Children, makes a moderately palatable mixture:—

Ammonium mandelate	26 gr. (1.65 gm.).
Liquid extract of liquorice ..	5 min.
Elixir of saccharin	1/5th min.
Distilled water	to 1 fl. dr.

The usual daily dose of this for an adult would be one ounce. Other flavouring agents in combination with liquorice are in use, such as essential oils of aniseed, dill and fennel.

In the body ammonium mandelate is broken down into urea and mandelic acid; in the majority of cases the urine is sufficiently acid without the administration of ammonium chloride.

At the Hospital for Sick Children, W. W. Payne ("British Medical Journal," 1936, II, 1046) prescribes ammonium phosphate in place of the chloride when an acidifying agent is needed. It is by no means so nauseating, particularly when dispensed to the formula:—

Ammonium phosphate	7½ gr.
Liquid extract of liquorice ..	½ min.
Citric acid	¼ gr.
Oil of lemon	1/120 min.
Syrup	15 min.
Distilled water	to 1 fl. dr.

Ammonium mandelate has well fulfilled the expectations of the physicians who introduced it, and gives rise to complications less often than sodium mandelate. In an attempt to eliminate these entirely, still another salt of mandelic acid has come into use.

Calcium Mandelate

Calcium mandelate, $(C_6H_5.CHOH.COO)_2Ca$, is a white granular powder, insoluble in water. It may be prepared by double decomposition of sodium mandelate and calcium chloride. It was introduced by E. Schnohr ("Lancet," 1937, I, 1104). In the stomach it is changed into calcium chloride and mandelic acid, part of the calcium chloride being converted into non-absorbable calcium salts. Calcium mandelate is tasteless and seldom causes dyspeptic discomfort. Schnohr recommended the following prescription, dispensed in the form of granules:—

Calcium mandelate	72.25
Cocoa powder	7.50
Sucrose	20.00
Soluble saccharin	0.02

One level dessertspoonful of the granules contains the equivalent of 2 gm. of mandelic acid.

Calcium mandelate, unfortunately, is immiscible with water and cannot be suspended in the ordinary way with a mucilage. It is therefore imperative to dispense it in the form of granules or powders. As with sodium and ammonium mandelates, it is occasionally found necessary to supplement the treatment by giving the patient ammonium chloride or phosphate to produce the required acidity.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

Report on the December Analytical Exercise

THE powder distributed to students on December 7 contained one part by weight of cadmium bromide, eight parts of potassium chloride, and one part of disodium hydrogen arsenate. The calculated composition of such a mixture is:—

Cd	...	...	...	...	4.1
K	...	...	...	...	42.0
Na	...	...	...	...	1.5
Br	...	...	...	...	5.9
Cl	...	...	...	...	38.0
AsO ₄	...	...	...	...	4.4
H, H ₂ O	...	...	...	...	4.1
					100.1

Samples of the powder were distributed to 32 students and six reports of analyses were returned for examination. Potassium and chloride were recognised in each case; sodium was missed by one student; while cadmium, bromide, and arsenate escaped detection in four instances each. One student detected arsenic but did not report it as arsenate. Water was overlooked in three cases.

The analysis of this mixture was less simple than in the case of the November exercise. It was not difficult to recognise the presence of potassium and of a chloride, but the detection of the other constituents provided several items that required careful handling.

Failure in the detection of cadmium was commonly due to the original acid solution being treated with hydrogen sulphide in presence of so much free hydrochloric acid that cadmium sulphide could not be precipitated and copper-group metals were regarded as absent. The cadmium which thus escaped separation at the appropriate stage was liable to give rise to confusing reactions later on.

The omission of a preliminary test that might have revealed the presence of arsenic in any form was mainly responsible for the failures to obtain indications pointing to the presence of this element. Further, the reduction of the arsenate to the arsenious state, with precipitation of arsenious sulphide and sulphur, was unlikely to be observed in the presence of cadmium sulphide, unless special search was carried out by some appropriate procedure. This matter constituted the real difficulty of the analysis and the precipitation of arsenious sulphide was noted in a single instance only.

Bromide was missed in some cases because it was not separately tested for; in others doubtless because the reagent supposed to be chlorine water no longer contained free chlorine, while, on occasion, the behaviour with ammonia of the precipitate obtained by means of silver nitrate was relied upon as furnishing a distinction between silver chloride and silver bromide. The insufficiency of this latter test has been emphasised repeatedly in this column.

PRIZES

The first prize for the best analysis has been awarded to:—

JOHN PRESTON, 38 Herringthorpe Grove, Rotherham, Yorks.

The second prize has been awarded to:—

FRANK S. EVANS, 6 Brooklands, Bridgeton, Totnes, Devon.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

1. Correspondents who have not passed in Chemistry:—

John Preston (1st Prize) ...	79	Ketone	...	...	...	54
Frank S. Evans (2nd Prize) 68		Keneu	38
Usque conabor ...	55					

2. Correspondent who has passed in Chemistry:—

Jay Kay	77
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TO CORRESPONDENTS

JOHN PRESTON.—Beware of the apparently widespread fiction that the borax-bead test may be omitted with safety in the case of a substance that is not coloured. Various substances illustrate the reverse. The cadmium that escaped precipitation at the proper stage may have given rise to the reaction that led you to report magnesium.

FRANK J. EVANS.—If, as seems likely, you did not reduce the arsenate when treating the original solution with hydrogen sulphide, the subsequent test with ammonium molybdate in the filtrate should have given a reaction on boiling. You have been led astray regarding the supposed precipitate of cuprous iodide.

USQUE CONABOR.—Failure to obtain the liberation of bromine may have been due to the employment of a reagent that no longer contained free chlorine. Too high a concentration of hydrochloric acid was no doubt the reason of the non-precipitation of the cadmium as sulphide.

KETONE.—You report the formation of silver chloride on adding silver nitrate to the portion of the sodium carbonate extract that had been acidified with nitric acid: then later you state "to neutral solution [how prepared is not mentioned] added silver nitrate: no precipitate." This strange self-contradictory evidence requires explanation. Read the reply to "Usque conabor."

KENEU.—You would profit by making up a mixture in imitation of the one distributed and practising upon it until the reactions of the several constituents can be recognised with certainty. Read the general remarks and the replies to other correspondents.

JAY KAY.—Having detected the presence of arsenic and observed the reaction with ammonium molybdate you should have followed the high road thereby indicated to settle the question whether phosphate, or arsenate, or both, were present. The supposed liberation of phosphine was incorrect.

BASIL SKINNER.—It can scarcely be supposed that you were unable to recognise the presence of some, at least, of the constituents of the powder, hence it seems unfortunate that you did not send in a report of your analysis as far as you were able to carry it, thereby safeguarding your position as a tournament competitor. Comment has often been made and many replies have been given concerning the quantity of the powder distributed to each student for analysis (uniformly about 1 gram or 15 grains). Thirty years ago, economy of substance in preliminary testing was treated with some detail in an article dealing with "Analytical Varia," which you should find helpful if you can obtain access to the *C. & D.*, August 31, 1907 (Vol. 71, p. 360).

Business Changes

THE telephone number of Brooks & Warburton, Ltd., 232 Vauxhall Bridge Road, London, S.W.1, has been changed to Victoria 1282.

F. A. STRANGE, LTD., chemists, have acquired from Mrs. A. A. Strange the business carried on by her at 185 Lower Clapton Road, London, E.5.

THOMAS KERFOOT & CO., LTD., Bardsley Vale, Lincs, inform us that from January 13 the telephone numbers of their London House will be changed to Canonbury 3224-3225.

Pharmaceutical Society

London Examination Results

THE following were the results of the examinations held in London during January:—

Examination	Entered	Absent	Failed	Referred (one subject)	Passed
Preliminary Scientific:—					
(a) Whole examination ...	136	4	69	42	21
(b) Referred subject ...	108	1	—	59	48
Chemist and Druggist Qualifying:					
(a) Whole examination ...	120	2	62	33	23
(b) Referred subject ...	81	1	—	13	67

Under Regulations 9 and 16 the Board also prescribed that before re-entry for the examination 18 candidates should undergo a further course of study as follows:—

PRELIMINARY SCIENTIFIC EXAMINATION

In all subjects ...	4*
In botany section of biology*	14

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

In all subjects ...	5
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SUMMARY OF REJECTED CANDIDATES

Subject	Entered	Absent	Referred	Failed
Biology (botany + zoology) ...	39 } 206	1 } 5	13 } 73	16 } 60
(botany section only)* ...	167 }	4 }	60 }	44 }
Chemistry ...	151	4	17	63
Physics ...	159	4	11	54
Pharmacognosy ...	136	3	12	36
Pharmaceutics ...	152	2	18	44
Physiology ...	118	2	4	35
Pharmaceutical Chemistry ...	127	2	9	47
Forensic Pharmacy ...	139	2	3	34

* These candidates are exempt under Regulation 9 (c) from examination in the zoology section of biology.

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following candidates have satisfied the examiners:—

Anthony, Eileen M., Fulham	Jacobs, L. L., Kronstad
Baxter, D. T., Swansea	Jenkins, A. R., Swansea
Bayley, M. L. D., Wolstanton	Jenkins, C. T., Cymmer
Beken, A. K., Cowes	Johnson, Ada F., Aspull
Blackmore, Michael R. B., Wellington	Johnson, B. L., Southampton
Bottomley, William, Leeds	Johnston, L. S., Yeovil
Brooke, Kenneth, Leeds	Johnstone, M. E., Wallingford
Clark, J. H., Annfield Plain	Jones, Gwyn, Swansea
Cox, David, Newent	Kight, W. F., Harborne
Creber, F. C., Gillingham	Laidler, L. F., Merton
Cross, E. A., Street	Lawrence, Christine, Bushey
Dobbs, A. W., Gillingham	Leeson, Arthur, Denton
Dodd, D. T., Crewe	Lenton, Enid M., Cardiff
Drakes, G. R., Salisbury	Letchford, E. P., Southsea
Ellis, G. R., Fulham	Lessey, E. B. S., Edgbaston
Entwistle, George, Bury	Loader, Rosemary J., Blackheath
Evans, R. E., Norwich	Longworth, Margaret E., Swansea
Farebrother, L. J., Tamworth	Malkin, Ronald, Wolstanton
Fryer, Norah G., Hastings	Morgan, Cecil A., Merthyr Tydfil
Garnham, E. G., Havant	Mowl, L. J. H., Cambridge
Gathercole, A. K., Croydon	Newton, G. T., Newport
Gerrard, Margaret, Birmingham	Norman, Albert, Market Harborough
Goodall, F. A., Marsden	Oliver, F. H., Birmingham
Griffiths, A. E., Camrose	Palmer, H. C., Flixton
Guest, G. D., Hoyland	Phillipotts, W. P. B., Stony Stratford
Hadfield, C. C., Macclesfield	Pryce, A. H., Llanidloes
Harrison, T. B., Sleaford	Rench, Mabel H., Manchester
Hendra, G. J., Truro	Roberts, Winifred E., Llanidloes
Herd, G. D., Eastbourne	
Hurst, J. H., Gosport	
Hutt, J. E., Southampton	
Irving, Robert, Annan	
Jackson, J. K., York	

Rowlands, John F., Lower Bebington	Thurston, H. C., Newent
Scott, M. R. T., Stevenage	Townsend, Estelle R., Ramsgate.
Shelley, E. S., Cambridge	Twinberrow, E. C., Chudleigh
Sibbett, L. A., Erith	Wade, Maria, Darwen
Silk, D. V., Cheltenham	Warren, C. H., Gillingham
Sill, J. W., Beaminstor	Watkins, J. R., Cardiff
Simms, Arthur, Erdington	Weeks, G. W., Portsmouth
Smalley, Rosalyn, Accrington	Westcott, Kenneth, Davenport
Smith, C. W., Shephed	Wheeler, W. M., Chatham
Smith, H. H., Stockport	Whitford, W. H., Llandrindod Wells
Smith, Wilfred H., Budleigh Salterton	Whyte, J. N., Lanark
Snell, Oliver W., Bury St. Edmund's	Williams, D. S., Mountain Ash
Swan, H. D., Maidstone	Young, L. G., Barnsbury
Taylor, F. L., Sale	
Thomas, Doris M., Rhondda	

WORLD MINERAL INDUSTRIES—No. 3

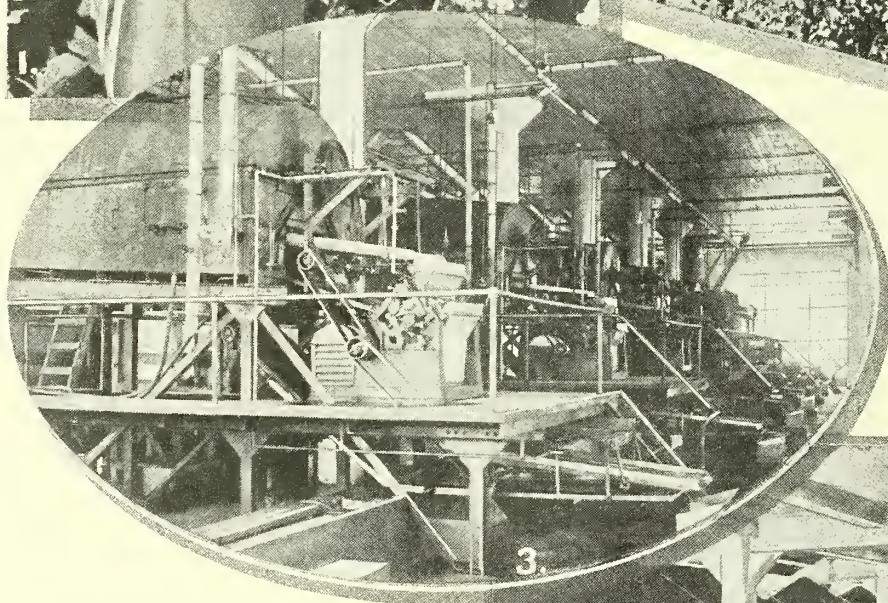
Barium Minerals

THE following table of world production is given in a Statistical Summary of production and exports of the world's mineral industries, published by the Imperial Institute, London, S.W.1 (price 7s. 6d.) :—

Producing Country and Description	1934	1935	1936
BRITISH EMPIRE	tons	tons	tons
United Kingdom—			
Barytes, unground ...	37,719	41,881	37,250
Witherite, unground ...	10,412	9,409	8,751
Barytes—			
Ground, bleached ...	5,548	6,288	5,731
Ground, unbleached ...	20,315	20,554	21,338
Southern Rhodesia ...	13	—	—
India ...	3,813	5,493	5,114
Australia ...	2,492	2,544	2,157
FOREIGN COUNTRIES			
Austria ...	1,009	784	1,637
Czechoslovakia ...	2,061	(a)	(a)
France ...	17,850	16,600	(a)
Germany—			
Baden ...	19,370	12,248	17,510
Bavaria ...	8,253	6,961	10,990
Prussia ...	321,164	321,786	385,910
Saxony ...	476	218	460
Thuringia ...	(a)	545	443
Wurtemberg ...	(a)	(a)	1,000
Greece ...	7,729	22,726	(a)
Italy ...	31,896	40,502	36,092
Norway ...	—	—	402
Portugal ...	—	—	10
Spain (b) ...	16,586	(a)	(a)
U.S.S.R. (Russia)—			
Barytes ...	73,600	(a)	(a)
Witherite ...	800	—	(a)
Egypt ...	49	84	30
United States ...	159,251	194,710	244,698
China ...	9,350	(a)	(a)
French Indo-China ...	—	—	30
Japan ...	—	—	3,776
Korea ...	5,841	10,853	(a)

(a) Information not available. (b) In addition 147 cubic metres were produced in quarries during 1934.

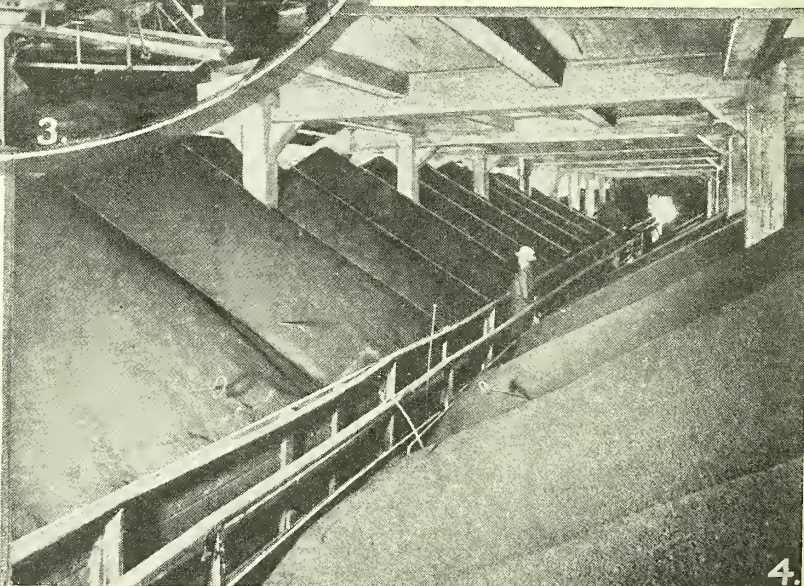
NEW WEIGHT AND MEASURE DESIRED.—At a recent meeting of the Yorkshire Council of Grocers' Associations, a member asked for the support of the grocery trade in an appeal for a 1½-pint measure, and suggested that much time might be saved by having a 1½-lb. weight. The meeting agreed.



Californian Raisin Seed Oil Industry

1. Californian Muscat Vine : Harvest time.
2. A typical vineyard, showing fruit in drying trays.
3. Battery of machines for de-seeding the fruit.
4. General view of the storage sheds of dried muscat raisin seeds. Annual production of seed reaches 4,000 tons.

An article describing this oil and its use in the cosmetic industry was published in the C. & D. Annual Special Issue, dated June 26, 1937 (p. 723).



Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, January 13

THERE has been more life in the markets this week and, although the volume of business is still rather limited, it shows a welcome improvement on the slack end-of-the-year markets of the previous three weeks. The general tone is steady. With other markets PHARMACEUTICAL CHEMICALS have enjoyed a better inquiry, particularly for the seasonable products. SODIUM DIETHYLBARBITURATE continues steady at last week's reduction. SANTONIN is dull and not steady as quoted. EPHEDRINE products still tend to weaken on a very slow market.

Crude Drugs

Most of the commodities handled in this market continue quite steady, while business has improved satisfactorily. The distant shipment quotations for new crop AGAR are slightly easier. The source reports no more supplies of CURAÇAO ALOES available till new crop. Spot values for Canada BALSAM are again dearer, but are still slightly cheaper than replacement costs. No interest shown so far in offers of new crop BUCHU. JAPANESE CAMPHOR is steady, demand quiet. A limited business in CARDAMOMS. The demand for CASCARA SAGRADA is still slow. Shipments of Norwegian COD-LIVER OIL during 1937 were the best for some years. COLOCYNTH seems to have now reached bottom. Scarcity of spot supplies of DAMIANA LEAVES is noted. The demand for ERGOT is still negligible. After a prolonged period of dull markets and declining values, Sudan GUM ACACIA is reported to be steadier, with new crop shipment quotations at slightly better figures. The demand for HONEY shows no improvement. Fair spot business in Japanese MENTHOL reported; values show a slight loss on the week, with the market closing steady. An important consignment of Spanish MERCURY is now afloat for London. PIMENTO is dearer, closing firm. RHUBARB in better supply, with values slightly cheaper. RUBBER shows a fair recovery on the week. SHELLAC is steady at little better values. BEES' WAXES have remained in quiet demand and values are rather easier. CARNAUBA WAXES are quiet but steady.

Essential Oils

Business has broadened out fairly well this week, and a good shipment inquiry for some products is reported. Expressed ALMOND is being quoted keenly. ANISE (STAR) meets with a quiet spot demand; values are steady on a rather lower level. BERGAMOT continues neglected, so far as new crop is concerned. CASSIA is still very quiet on spot. Java and Ceylon CITRONELLA are slow markets. Interest has been centred on the developments in the shipment market for new crop hand-pressed Sicilian LEMON; quotations have been steadily pushed up, with the source indicating still higher prices to come, due, it is stated, to the alleged restricted quantity of oil that will be available this year: no sign of business having been done at anything near the closing quotation. New crop French Guinea ORANGE is now offering from the source at attractive figures. Shipment quotations for PALMAROSA continue to advance, and spot holders are quoting dearer. Japanese PEPPERMINT has sold quietly on spot and the general tone of the market is steady.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	January 6	January 13
Amsterdam ...	Fls. to £	12·107	8·98	8·98
Berlin ...	Mks. to £	20·43	12·40	12·40
Brussels ...	Belgas to £	nominal	29·48	29·46
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	95 ½	95
Montreal ...	Dols. to £	4·86½	5·00½	5·00
New York ...	Dols. to £	nominal	5·00½	5·00
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	147½	147½
Prague ...	Kr. to £	164·25	142½	142½
Stockholm ...	Kr. to £	18·159	19·40	19·40
Warsaw ...	Zloty to £	43·38	26½	26½
Zurich ...	Fr. to £	25·2115	21·60	21·60

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS has been on a fairly normal scale this week. Quoted values show no change of importance.

ACETANILIDE.—Steady, limited business: B.P. crystals and powder, 1s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Convention prices steady; the new scale is as follows:—Crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra. Quoted ex store, London.

AMMONIUM ICHTHIOSULPHONATE.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10½d. in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN.—Makers' and dealers' prices are steady, average business reported: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 3s.; 14 lb., 3s. 1½d.; 7 lb., 3s. 2½d.; 4 lb., 3s. 4½d.; 1 lb., 3s. 7d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

BARBITONE.—Convention prices steady, business quiet: two cwt., 8s. 1d.; 56 lb., 8s. 4d.; small parcels, up to 8s. 7d. per lb., ex store, London.

BENZOIC ACID (B.P.).—Moderate demand: quantities, ex works, 1s. 9d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' prices are unchanged: carbonate, B.P., not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies, 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Quiet market: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure alkaloid, two cwt., 8s. 10½d.; one cwt., 9s. 0½d.; 56 lb., 9s. 2½d.; less than 56 lb., 9s. 4½d. per lb. Citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda sal., two cwt., 6s. 2½d.; one cwt., 6s. 3d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d.

CALCIUM LACTATE.—Quoted unchanged: one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Home makers' scale of prices continues steady: duty-paid crystals in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars, one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Fair business, market quoted unchanged: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Continues steady: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—The demand continues at a minimum, with values somewhat irregular, tending easier. Hydrochloride, B.P., about 14s. 6d. per oz. Pure alkaloid, about 19s. per oz., in bulk quantities.

United States of America imports of ephedra herb totalled 68,777 lb., valued \$3,405, in October, 35,773 lb. coming from China and the remainder from Japan. The total for the first 10 months of the year was 738,250 lb., valued \$19,350. Imports of this product amounted to 1,000,250 lb. during the whole of last year and 1,948,000 lb. in 1935.

GALLIC ACID.—Spot values steady, with cwt. lots at 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb., ex store.

HEXAMINE.—Makers' prices for bulk quantities are steady: B.P. powder at about 1s. 2d.; free-running crystals, from 1s. 3d. to 1s. 6d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, one cwt., 1s. 4d.; 14 lb., 1s. 8d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—The agreed scale of prices are as follows:—**POTASSIUM**, B.P.—1 cwt., 4s. 6d.; 28 lb., 4s. 9d.; 14 lb., 5s.; 7 lb., 5s. 6d.; 4 lb., 6s.; smaller quantities, 6s. 6d. per lb. **SODIUM**, B.P., 28 lb., 5s. 9d.; 14 lb., 6s. 1d.; 7 lb., 6s. 7d.; 4 lb., 7s. 3d.; smaller quantities, 8s. 1d. per lb. **IODINE**, B.P., RESUBLIMED.—1 cwt., 5s. 4d.; 28 lb., 5s. 7d.; 14 lb., 5s. 10d.; 7 lb., 6s. 4d.; 4 lb., 7s.; smaller quantities, 7s. 9d. per lb. **ODOFORM**, B.P., CRYST., PRECIP. or POWDER.—28 lb., 8s.; 14 lb., 8s. 4d.; 7 lb., 9s.; 4 lb., 9s. 10d.; smaller quantities, 10s. 8d. per lb. Contracts for one cwt. and upwards (assorted if required) with fall clause, with delivery as required during four months. 28-lb. tins and one-cwt cases free. All jars and bottles charged, but credited if returned carriage paid, in good condition, within three months. Assorted quantities are charged at the collective total weight. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices or terms below the scale for any such quantity current at the time the resale is made.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100 oz., 10½d., in 100-oz. tins; 10½d., in 25-oz. tins; 11d., in 16-oz. bottles; 11½d., in 4-oz. and 8-oz. bottles; 1s. 0½d., in 1-oz. bottles, to 1s. 5½d.

LACTIC ACID (B.P.).—A quiet demand; quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10½d. per lb., as to quantity.

MERCURIALS.—Makers' scales of prices continue steady at the recent revision.

	Less than 28 lb.	Not less than 28 lb.	Not less than 112 lb.
Ammoniated Lump B.P. (White Precip.) ...	s. d. 6 4	s. d. 6 0	s. d. 5 11
Powder B.P. ...	6 6	6 2	6 1
Bichloride Lump B.P. (Corros. Sub.) ...	5 7	5 3	5 2
Powder B.P. ...	5 3	4 11	4 10
Chloride B.P. Calomel ...	6 4	6 0	5 11
Red Oxide Cryst. B.P.C. (Red Precip.) ...	7 5	7 1	7 0
Levig B.P.C. ...	6 11	6 7	6 6
Yellow Oxide B.P. ...	6 9	6 5	6 4
Persulphate White ...	6 6	6 2	6 1
Sulphide Black (Hyd. Sulph. cum Sulph. 50%)	6 5	6 1	6 0

Net.—Usual terms. Special prices for larger quantities and for contracts.

METHYL SALICYLATE.—The demand remains moderate: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; smaller quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' spot quotations are keen: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; smaller parcels, up to 20s. 8d. per lb.

PHENACETIN.—Quotations continue at former levels: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Prices are unchanged: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. extra. Quoted duty paid, London.

PHENOLPHTHALEIN.—About steady, quiet: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHOTOGRAPHIC CHEMICALS.—**AMIDOL.**—28 lb., 7s. 6d.; 14 lb., 8s. 3d.; 7 lb., 9s.; under 7 lb., 11s. 9d. per lb., in 1-lb. bottles. **CHLOROQUINOL.**—1-lb. bottles, 21s. per lb. **GLYCIN.**—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. **HYDROQUINONE.**—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. **METOL.**—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d.; 3 lb., 11s. 6d.; 1-lb. bottles, 12s. 6d. per lb. **ALUM** (PHOTOGRAPHIC QUALITY).—1 cwt., 12s. per cwt., 28 lb. for 6s. **GOLD CHLORIDE.**—15-grain tubes, 45s. per doz. **MAGNESIUM POWDER.**—10s. per lb. **PARAMIDOPHENOL HYDROCHLOR.**—8s. 6d. per lb. **POTASSIUM FERRICYANIDE.**—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. **POTASSIUM METABISULPHITE.**—One cwt., 7½d.; 28 lb., 8d.; 14 lb., 9d.; 7 lb., 11d.; 1 lb., 1s. per lb. **PYROGALLIC ACID**, CRYST., 28 lb., 6s. 9d.; 14 lb., 7s. 6d.; 7 lb., 8s. 3d.; under 7 lb., 8s. 9d. per lb. **SODIUM** (CARBONATE RECRYST.).—5 cwt., 12s. 6d. per cwt., 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM HYPOSULPHITE**, CUBES, CRYST.—5 cwt., 16s. 3d.; 1 cwt., 18s. 6d. per cwt.; 56 lb. for 11s.; 28 lb. for 6s. **SODIUM SULPHIDE** (PURE).—7 lb., 1s. 3d.; 1 lb., 1s. 6d. per lb., bottles and jars charged extra and non-returnable. **SODIUM SULPHITE**, RECRYST.—One cwt., 20s. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—A small business reported: bulk quantities, in drums, 9d.; druggists' parcels, from 10d. to 1s. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Dealers find business slow: quoted about 6s. 1½d. to 6s. 3d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s.; hypophosphite, 4s.; alkaloid, 3s. 10½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—The home makers' new scale of prices is as follows: one cwt., 5s. 5d.; 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller quantities, up to 7s. per lb.

ROCHELLE SALTS.—Makers' prices are steady:—

	Pulv. Sod. Pot. Tart. B.P.	Pulv. Seidlitz	Double Seidlitz
	Per cwt. s. d.	Per cwt. s. d.	Per cwt. s. d.
Under 1 cwt. ...	85 0	68 0	75 6
Under 5 cwt. ...	82 6	66 3	73 5
Over 5 cwt. in one delivery ...	80 0	64 3	71 0

Soda, pot. tart. cryst. at 2s. 6d. per cwt. extra to powder, net, 14 days. Special prices for quantities. Contracts accepted subject to a rise and fall clause.

SALICYLIC ACID (B.P.).—Market is quiet: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SANTONIN.—The standard price is stated to be £15 per kilo, but it seems likely that this figure would be discounted in some quarters for bulk quantity orders.

SODIUM BENZOATE (B.P.).—Fair business reported: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 7½d. to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Convention prices continue at the reduction recorded last week. The new scale is as follows: one cwt., 10s.; 28 lb., 10s. 3d.; 14 lb., 10s. 6d.; 7 lb., 10s. 9d.; less than 7 lb., 11s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Fairly steady, demand moderate: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Dealers' quotations are keen: crystals or powder, two cwt., 15s. 5d.; one cwt., 15s. 11d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market is steady: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

THEOBROMINE.—Prices for Continental, pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb.; sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free; smaller packages extra.

THYMOL.—Synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6s. per lb., tins extra; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10½d.; 28 lb., 9s. 5d.; 14 lb., 10s. 6d. per lb.

VANILLIN.—Convention prices are unchanged, business quiet: five cwt., 12s. 5d.; one cwt., 12s. 8d.; 56 lb., 13s.; less than 56 lb., 13s. 2d. per lb.

Crude Drugs, etc.

ACONITE ROOT.—Limited supplies of *Napellus* root, due to arrive shortly, quoted at about 97s. 6d. per cwt., landed.

AGAR.—Spot values steady, quiet demand. Distant shipment offers are slightly easier: spot, Kobe, No. 1, 3s. 7d. to 3s. 8d.; No. 2, 3s. 5d. Yokohama, No. 1, 3s. 5d. per lb., shipment; Kobe No. 1, January-February, 2s. 9d.; February-March, 2s. 7½d.; No. 2, March-April, 2s. 5½d.; Yokohama No. 1, 2s. 5d. per lb., c.i.f.

ALOES.—Not much doing on spot, but values continue firm for Curaçao. The source states all stocks cleared, with nothing more to offer till new crop next July: Cape, spot, 63s. to 64s.; shipment, about 62s. 6d. per cwt., c.i.f. Curaçao, spot, manufacturing quality, 140s.; smooth black, turning, 145s.; livers, from 147s. 6d. to 155s. per cwt.; shipment, nominal at 140s. per cwt., c.i.f.

ANTIMONY.—Chinese crude quoted dearer: spot, £46; shipment, January-February, £39, c.i.f. English regulus, spot, £81 to £82 per ton.

ARNICA FLOWERS.—Some supplies of Montana are offering in small lots on spot at 1s. 4d. per lb.

BALSAMS.—Spot values for Canada are dearer, market very firm: *Tolu*, 1s. 9d.; *Canada*, 6s. to 6s. 1½d.; shipment, 6s. 2d., c.i.f.; *Peru*, 5s. 4d. per lb., spot.

BELLADONNA.—A little inquiry, market steady: leaves, 57s. 6d.; root, 55s. per cwt., spot.

BENZON.—Spot market is steady at the rates quoted last week; business of little consequence.

BUCHU.—A few odd bales have been cleared on spot, with rounds at 1s. 10d. to 2s., and ovals, 1s. 8d. to 1s. 9d. per lb., ex store, in bale lots. New crop for shipment is advised at 1s. 10d. per lb., c.i.f., with no interest shown at the moment.

BURDOCK ROOT.—Small parcels on spot are being quoted from 42s. 6d. to 45s. per cwt., ex store.

CAMPHOR.—Market has been rather quiet, values steady: Japanese manufacturing BB grade, £8 10s. per 100 lb. Japanese spot, tablets, 2s. 7½d.; powder, 2s. 4d.; slabs, 2s. 3½d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d.

per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; $\frac{1}{2}$ oz., $\frac{3}{4}$ oz. and $\frac{1}{4}$ oz., 3s. 6d. per lb.

CANTHARIDES.—Quoted unchanged, business quiet; spot, Russian, 5s. to 5s. 3d.; Chinese, 2s. 3d. per lb., as to quantity; shipment, 1s. 8d. per lb., c.i.f.

CARDAMOMS.—Values are keeping steady, with one or two inquiries on the market: Aleppy, green, spot, 4s.; shipment, 2s. 8d., c.i.f., for f.a.q. Duckwari seed, spot, 5s. 6d. Bombay seed, spot, 5s. 9d.; shipment, 4s., c.i.f. Mangalore seed, shipment, 3s. 8d. per lb., c.i.f.

CASCARA SAGRADA.—The demand shows no improvement, quoted unchanged: spot, 1937 peel, 55s. to 57s.; old peel, 65s. to 70s. per cwt.; shipment, 1937 peel, 48s. per cwt., c.i.f.

CHAMOMILES.—Steady spot trade in small parcels: quoted from 140s. to 170s. per cwt., as to quality, ex store.

CLOVES.—Market is steadier; Zanzibar, spot, 8d.; shipment, January-March, 7½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, January-March, 6d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended January 8 were 10 and the deliveries 17, leaving a stock of 1,262. From January 1 to date the landings of Zanzibar have been 10 and the deliveries 17. Landings of Madagascar for the week ended January 8 were nil and the deliveries 16, leaving a stock of 2,074. From January 1 to date the landings of Madagascar have been nil and the deliveries 16 packages.

COCOA BUTTER.—Market continues steady: prime English, 10d. to 11½d.; foreign, 9d. to 10½d. per lb., as to quantity and quality.

COCONUT (DESICCATED).—Values slightly better on the week: spot, fine, 20s. 3d.; medium, 19s. 6d. per cwt.; shipment, halves, January, 20s. 3d.; February, 20s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports shipment business remains quiet and the market is again quoted easier. Exports for 1937 totalled 99,480 barrels, compared with 95,802 in 1936 and 93,173 barrels in 1935: finest Lofoten steam refined non-freezing medicinal oil, 92s. to 93s. per barrel, c.i.f. London. Small lots on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil continues at the advance recently recorded, with the quotation now at 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

COLOCYNTH.—Supplies of pulp are available on spot at about 1s. to 1s. 3d. per lb., as to quantity and quality.

DAMIANA LEAVES.—Practically nothing available on spot: new crop, January-February shipment, 7½d. per lb., c.i.f., for bulk quantities.

DERRIS ROOT.—Spot supplies, basis 17 per cent. either extract, about 7d. per lb., ex store; shipment, about 5½d. per lb., c.i.f.

ERGOT.—Interest in this market is still of no importance. Spanish-Portuguese, 5s. to 5s. 3d. Russian, 5s.; shipment, 4s. 6d., c.i.f., reported paid for Portuguese. Some Bulgarian bold, 4s. 6d., c.i.f., and reported to be of good test.

GENTIAN.—A quiet spot business, with quoted prices for Continental root in the region of 42s. 6d. per cwt., as to quantity.

GINGER.—Values about steady, business moderate: West African, spot, 48s. 6d.; for arrival, 37s. 6d. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 82s. 6d. to 85s.; small grinding, in bags, 60s. to 62s. 6d. per cwt.

GUM ACACIA.—Following further weakness, the market shows some recovery and closes steadier: Kordofan, cleaned sorts, 42s.; shipment, 38s. per cwt., c.i.f., for new crop, January-February dispatch.

HENBANE.—Dealers are quoting small spot parcels at about 75s. per cwt., ex store.

HENNA.—Occasional small business: Egyptian, green, 31s. to 32s.; brown, about 28s. per cwt., ex store.

HONEY.—Market is still attracting but little business: Jamaican, dark manufacturing, 38s. up to 40s. for pale set. Californian, white clover, 52s. 6d., duty paid. Canadian, new crop, if available, 57s. 6d. to 60s. per cwt., ex store.

HYDRASTIS.—Values appear fully steady, business, however, is quiet: spot, 15s. 3d.; shipment, 15s. 3d. per lb., c.i.f.

IPPECACUANHA.—Values for good quality root are steady, business still quiet: Matto Grosso, B.P. test, spot, 8s. 1½d.; shipment, 7s. 7½d. per lb., c.i.f.

KOLA NUTS.—Some African halves are available here at about 2½d. to 3d. per lb., ex store.

LOELLIA HERB.—Some spot demand, with values tending steadier: spot, 6½d. to 7½d.; shipment, new crop, 7½d. per lb., c.i.f.

MANNA.—Spot supplies of finest selected flake, in 1-lb. tins, quoted at about 3s. 6d. per lb.; demand slow.

MENTHOL.—Fair business, mostly spot consuming demand, with the market generally steady. K/S brands, spot, 13s.; in bond, 11s., c.i.f. Japanese shippers quote January-March, 10s. 9d., c.i.f., with market re-sellers at 10s. 7½d. per lb., c.i.f. Some afloat goods offered at 10s. 9d., c.i.f. Chinese, February-March shipment, 10s. 4½d. per lb., c.i.f.

MERCURY.—First-hands quoted unchanged. An important parcel has just been shipped from Spain destined for London: f.o.b. Continent, 64 dollars; spot, £12 17s. to £12 17s. 6d. per bottle, ex store, London.

OPIMUM.—Business limited, market steady: Turkish, original cases of 170 lb., 12½-13 per cent., 1s. 1½d.; Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PAPAIN.—Exports from Ceylon during January-September, 1937, totalled 155,000 lb., valued at Rupees 327,000, compared with 171,000 lb. (Rupees 352,000) in the corresponding period of 1936.

PEPPER.—The market has remained quiet, with values about level on the week. Lampong, in bond, 2½d.; shipment, January-March, 2½d.; March-May, 2½d.; April-June, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, January-March, 32s., c.i.f. Aleppy, spot, 3½d.; shipment, January-March, 32s., c.i.f. White Muntok, in bond, 3½d.; shipment, January-March, 3½d.; March-May, 3½d., c.i.f. London Terminal Market: Black, January, 2½d.; March, 2½d.; May, 2½d.; White, January, 3½d.; March, 3½d.; May, 3½d. per lb.

PIMENTO.—At the better figures the market is firm: spot, 7½d. per lb.; shipment, January-March, 67s. per cwt., c.i.f.

QUILLAINA BARK.—Spot supplies of crushed bark are quoted at about 35s. per cwt., ex store.

RHUBARB.—A limited business, with supplies not so restricted. Shensi, round and flat, 5s. 3d.; pickings, 3s. 11d., landed and duty paid. Rough round is quoted from about 2s. 5½d. to 2s. 7½d. per lb., as to quality and quantity.

RUBBER.—Values show a fair recovery on the week; more business, with market steady. Standard ribbed smoked sheet, spot, 7½d.; January, 7½d.; February, 7½d.; March, 7½d.; April-June, 7½d.; July-September, 7½d.; October-December, 7½d. per lb.

SAFFRON.—Dealers' quotations are steady: genuine Valencia, 67s. 6d. to 70s. per lb., ex store, for small parcels.

SENEGAL.—Rather more business moving, at keen prices: spot, about 2s. 1½d. to 2s. 2d.; shipment, 2s. 2d. per lb., c.i.f.

SENNA.—All descriptions quoted unchanged, with a few small inquiries on the market: Tinnevely, leaves, bold, 6½d.; No. 1, 5½d.; No. 2, 3½d.; No. 3, 2½d.; No. 4, 2½d. Tinnevely, hand-picked pods, 3½d. to 5d. per lb., as to quality. Alexandrian, hand-picked pods, No. 1, 3s. 6d. to 4s.; No. 2, 2s. 3d. to 2s. 9d.; No. 3, 1s. 6d. to 2s.; ordinary quality, 1s. to 1s. 3d. per lb., ex store, London.

SHELLAC.—Market is steadier with a little more business reported: spot, standard TN orange, 43s. 6d. to 46s. 6d.; fine orange, 57s. 6d. to 110s.; pure button, 55s. to 60s. per cwt.

SLIPPERY ELM BARK.—Small business, values continue steady: grinding quality, 6½d.; clippings, 8½d.; selected loose slabs, 1s. 2d.; 5-lb. wired bundles of selected quality, 1s. 9d. per lb., ex store.

SQUILL.—Some fair white is quoted on spot in the region of 27s. 6d. per cwt., ex store, as to quantity.

SIRAMONIUM.—Small parcels of good green Hungarian leaves are now quoted up to 40s. per cwt., ex store.

TONKA BEANS.—Steady and in limited supply: fair frosted Para beans, spot, 3s. 3d. to 3s. 4½d. per lb.

TRAGACANTH.—A moderate inquiry continues for the manufacturing grades of gum, with values showing no change. Quotations for the higher grade gums are also fully steady at recent figures.

FURMERIC.—Market reported quiet. Some fair quality Madras finger offering on spot at 29s. per cwt., ex store.

WAXES.—**BEES'** Market has been quiet: Calcutta, bleached, spot, 135s.; shipment, January-February, 132s. 6d., c.i.f.; ordinary quality, spot, 112s. 6d.; shipment, January-February, 107s. 6d. per cwt., c.i.f. Benguella, in bond, 105s.; shipment, January-February, origin, 100s., c.i.f. Conakry, spot, 107s. 6d.; shipment, January-February, 104s., c.i.f. Dar-es-Salaam, spot, 117s. 6d.; shipment, January-February, 107s. 6d., c.i.f. **CARNAUBA:** Market is steady but quiet as quoted. Fatty, grey, spot, 160s.; afloat, 150s.; shipment, January-February, 145s., c.i.f. Chalky grey, spot, 160s.; afloat, 147s. 6d.; shipment, January-February, 142s. 6d., c.i.f. Primeira, spot, good quality, 210s.; afloat, 190s.; shipment, January-February, 177s. 6d., c.i.f. Mediana, spot, 195s.; shipment, 170s. per cwt., c.i.f.

Essential Oils, etc.

THERE has been more life in the markets this week and business has been fairly satisfactory. The source continues to quote steadily advancing prices for new crop hand-pressed Sicilian lemon. New crop French Guinea orange is offered at attractive figures. Japanese peppermint is keeping steady.

ALMOND.—Prices quoted are a little cheaper, market steady: English made, cwt. lots, 2s. 7½d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 7½d.; smaller parcels, up to 3s. per lb.; French bitter, 6s. 3d. per lb.

ANISE (STAR).—Quiet spot demand, with values steady as now quoted. There are a few shipment offers: spot, leads, 5s. 3d.; tins, 5s.; drums, 4s. 9d. (nominal) per lb., ex store; shipment, drums, 4s. 4d. per lb., c.i.f. Some Tonquin oil, in drums, offered at about 3s. 10d. per lb., c.i.f.

AVOCADO PEAR.—Spot supplies of Californian oil are available on spot at about 47s. 6d. to 55s. per gallon, according to quantity, ex store.

BERGAMOT.—This market shows no material change on the week; inquiry is negligible for new crop oil, with the Consortium quotation in the region of 15s. 3d. per lb., c.i.f.: spot, sellers from 15s. to 15s. 6d. per lb., as to brand and quantity.

BOIS DE ROSE.—Slow demand on spot, with drums of Brazilian quoted at 6s. and smaller parcels up to 6s. 4½d. per lb.

CAJUPUT.—Quotations are slightly easier this week: B.P., 2s. 4d. to 2s. 7½d. per lb., as to quantity.

CANANGA.—Market is irregular and dull: spot, about 6s., with smaller parcels up to 6s. 4d. per lb.; shipment, 5s. 1d. per lb., c.i.f.

CARAWAY.—Steady, business limited: Dutch rectified, 7s. 9d.; crude, 7s. 5d. per lb., landed and duty paid.

CASSIA.—The demand is not of much account: spot, from about 3s. 6d. to 3s. 10½d., as to quantity and quality.

CEDAR LEAF.—Dealers report some small spot business, with the price steady at 5s. per lb., ex store.

CEDARWOOD.—A small business on a keen market: African, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb.

CINNAMON LEAF.—Offers for shipment for Ceylon oil continue in the region of 2s. 6d. per lb., c.i.f.

Exports from Ceylon during the period January–September, 1937, totalled 2,121,000 oz., valued at Rupees 327,000, compared with 2,327,000 oz. (Rupees 311,000) in the corresponding period of 1936.

CITRONELLA.—Most business is for limited quantities on spot; shipment market quiet: Ceylon, spot, drums, 1s. 8d.; smaller parcels, up to 1s. 11d.; shipment, drums, 1s. 5½d., c.i.f. Java: spot, drums, 2s. to 2s. 1d.; smaller parcels, up to 2s. 4½d.; shipment, drums, 1s. 8½d. per lb., c.i.f.

Exports from Ceylon during the period January–September, 1937, totalled 1,216,000 lb., compared with 1,005,000 lb. in the corresponding period of 1936.

EUCALYPTUS.—A little more business moving on spot, with some oils quoted at keen prices: Australian, 70 to 75 per cent., tins, 1s. 8d. to 1s. 8½d.; drums, 1s. 7d.; 80 to 85 per cent., drums, 1s. 10d. per lb., landed; higher prices for small lots on spot. Shipment, 70 to 75 per cent., tins, 1s. 5½d.; drums, 1s. 5d.; 80 to 85 per cent., 1s. 6½d. per lb., c.i.f.

GERANIUM.—Market continues depressed: Bourbon, spot, about 14s.; shipment, about 12s. 4½d. Algerian, spot, about 14s. 3d.; shipment, about 13s. 1½d. per lb., c.i.f.

GINGERGRASS.—A shipment offer is recorded this week at 6s. 4d. per lb., c.i.f. No spot quotations.

GRAPE-FRUIT.—Some small spot business reported: Californian, 10s. 6d. to 12s. Florida, 10s. 6d. to 11s. 3d. per lb., as to quantity.

HO (SHIU).—Rather more inquiry on spot and supplies of "improved" oil are becoming limited. Drums quoted at about 4s. per lb., with "extra" quality oil at a premium.

JUNIPER BERRY.—Dealers are quoting genuine oil from 3s. 3d. to 3s. 9d. per lb., as to quality and quantity.

LAVENDER.—Limited spot demand, shipment market dull. French, 38 to 40 per cent., about 16s. per lb. landed. Lavandin, to come forward, quoted at about 7s. 6d. to 8s. per lb., landed.

LEMON.—During the past two or three weeks a fair amount of business has been booked for the shipment of new crop Sicilian hand-pressed oil, and the price has been gradually advancing throughout. The cheapest business done seems to have been at about 9s. 3d., c.i.f., with the market then moving up to 10s., c.i.f. Last week the source quoted 11s. to 11s. 6d., c.i.f., and later these offers were withdrawn. To-day quotations range from 13s. to 13s. 6d., c.i.f., and most of these offers are made subject to acceptance. The various advices from the source are conflicting as to the reason for the strength of the market, but there seems to be agreement on one or two points. First, that it is now thought unlikely official action will be taken this season to institute a sales Consortium and fix a standard shipment price. Secondly, that the oil crop is not likely to be so large as was at first anticipated, and that the total quantity of oil available for the season will be rather less than usual. Thirdly, shippers have been requested not to operate against the market. In consequence of the position in the shipment market there has been more inquiry for spot oil and quite a good business is reported, but there is no evidence that either dealers or consumers are inclined to place contracts at the latest prices indicated by the source, despite the suggestion which accompanies them, that still higher prices may be expected. On most sides buyers appear to prefer to await developments, holding the opinion that the market may react and possibly steady up at a more reasonable figure. The present quotations will certainly restrict the demand for "straight" hand-pressed oil. Californian, regular quality, distilled, in small drums, 6s. 4d. per lb., landed.

LEMONGRASS.—Market remains dull: spot, 1s. 9d. to 1s. 10½d.; shipment, about 1s. 6½d. per lb., c.i.f.

MANDARIN.—Shipment prices at keen prices in the region of 17s. 6d. to 18s. per lb., c.i.f., are not attracting much business.

NUTMEG.—Steady but quiet. American and Dutch oils quoted at about 5s. 4d. to 5s. 6d. per lb., as to quantity.

ORANGE.—Now that supplies of the new crop French Guinea oil are reaching the coast in good volume the source is offering direct to this market with the figure indicated at 2s. 6d. per lb., c.i.f., in drums; it is understood that moderate business has been booked. Californian, spot, one case, 4s. 6d.; two or more cases, 4s. 3½d.; small drums, 4s. 2d.; large drums, not quoted per lb., landed.

PALMAROSA.—A further advance in the shipment price is recorded with the figure now up to 8s. 3d. per lb., c.i.f. Meanwhile, there are spot sellers at about 8s. 6d. per lb.

Exports of palmarosa oil from Dutch East Indies for the period January–October, 1937, was 2,710 kilog. The chief destinations were France (1,684 kilog.) and Holland (530 kilog.).

PATCHOULI.—Small spot business only. Singapore oil, spot, 14s. 9d.; shipment, 14s. per lb., c.i.f. Seychelles, spot, 12s.; shipment, 12s., c.i.f.

Exports of patchouli oil from the Dutch East Indies during the period January–October, 1937, totalled 17,565 kilog. The chief destinations were: France (5,650 kilog.), India (2,580 kilog.), Japan (3,375 kilog.), Singapore (1,250 kilog.).

PEPPERMINT.—More business done, mostly for spot goods. Japanese, spot, 4s. 8d. to 4s. 9d.; afloat, 4s. 4d.; shipped late December, 4s. 2d., c.i.f. Japanese shipment offers of January–March, 4s. 2d. to 4s. 3d., c.i.f., with probable market sellers of this position at 4s. per lb., c.i.f. The American natural oil, in drums, is quoted at about 2 dollars 20 cents, in drums, c.i.f., with business dull.

Exports of peppermint oil from Bulgaria during the first 10 months of the year aggregated 25,760 kilog., against 7,194 kilog. in the same months of 1936.

PETITGRAIN.—Rather more spot inquiry. Spot, cases, 4s. 3d.; smaller quantities, up to 4s. 6d.; shipment, in cases, 3s. 10½d. per lb., c.i.f.

RAISIN SEED.—Spot supplies of this Californian oil are now available in London, with the price quoted from about 2s. 4½d. to 2s. 7½d. per lb., ex store, according to quantity.

ROSEMARY.—A quiet demand on spot, with genuine Spanish oil quoted from 3s. 3d. to 4s. per lb., as to quantity and quality. A little more oil has been arriving lately.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots on spot, 19s. per lb. Oil described as East Indian is steady at 17s. 6d. per lb., c.i.f., for bulk quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SASSAFRAS.—Dealers' prices cover a wide range of values, but genuine American oil is quoted from 3s. 7½d. to 3s. 9d. per lb., ex store.

SPEARMINT.—Rather more inquiry. U.S.P. oil, spot, 8s. 3d.; shipment, 7s. 10d. per lb., c.i.f.

SPIKE.—Good quality Spanish oil is moving in limited quantities, with values about 5s. 6d., with some fine oil fully 5s. 9d. per lb., ex store. With recent arrivals supplies are not so restricted.

WORMSEED.—Business remains quiet. U.S.P. quality oil, about 10s. 8d., ex store; shipment, about 10s. 2d. per lb., c.i.f. Other quality oils at cheaper prices.

Sudan Gum Acacia Exports

BOXALL & Co. report that exports during October 1937 totalled 1,184 tons, compared with 1,642 tons in October 1936. Shipments during January–October 1937 totalled 18,542 tons, compared with 19,411 tons in the corresponding period of 1936. The chief destinations were as follows:—

Destination	1936			1937		
	Jan.–Sept.	October	Total	Jan.–Sept.	October	Total
Great Britain ...	4,251	440	4,691	5,134	80	5,214
U.S.A. ...	3,111	358	3,469	3,505	229	3,734
France ...	2,799	27	2,826	1,695	142	1,837
Germany ...	2,206	132	2,338	2,082	185	2,267
Italy ...	196	20	216	571	131	702
Belgium ...	1,135	135	1,270	647	131	778
Japan ...	878	105	983	942	48	990
Holland ...	728	92	820	684	23	707
Sweden ...	358	50	408	320	24	344
Norway ...	40	3	43	40	5	45
Australia ...	442	35	477	387	12	399
New Zealand ...	33	1	34	62	6	68
China ...	177	56	233	162	4	166
Canada ...	207	17	224	172	35	207
British India ...	36	40	76	71	—	71
Denmark ...	123	16	139	141	9	150
Finland ...	92	24	116	160	15	175
Poland ...	76	32	108	67	27	94
Rumania ...	101	10	111	59	3	62
Greece ...	73	5	78	57	3	60
Egypt ...	122	20	142	64	22	86
South Africa ...	44	—	44	27	—	27
Dutch Indies ...	27	—	27	32	12	44
Brazil ...	104	5	109	96	33	129

The export figures are made up of the following quantities:—

		Hashab	Bleached	Talha	Total
October, 1936 ...	tons	1,486	29	127	1,642
October, 1937 ...	tons	978	12	194	1,184
January–October, 1936 ...	tons	17,736	198	1,477	19,411
January–October, 1937 ...	tons	16,087	150	2,305	18,542

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

A Pioneer Price List

SIR,—Your illustration of the title page of an Edinburgh retail price list, January 1, 1884, reminds me that this is one of a series. When the list was first started I do not know, but in the one in my possession the title page is the same as yours, but the date of the list is January 1, 1876.

Yours truly,

HERBERT SKINNER.

London, N.7.

SIR,—The first thing which must strike the retail chemist, when looking through the comparative table of retail prices for drugs in 1884 and 1938, given in the article on "A Pioneer Price List" (*C. & D.*, January 8, page 36), is the many instances in which these prices are lower to-day than they were then. And the ones in which this occurs most frequently are drugs which are in more common demand for counter sales, in spite of the increased overhead expenses and the fact that in all other trades commodities have risen considerably. If the old prices were fair and bore a reasonable profit, as we must presume they were, then it indicates that chemists at the present time are not getting a proper return for their trading. Another question which always occurs to me when looking through price lists, both old and new, concerns the prices quoted for extemporaneously compounded items, such as pills and ointments. Certainly prescriptions for these are not presented so frequently now, but when we consider the time and trouble necessary to dispense only a dozen pills when containing some obstinate ingredient, or the mixing of an ointment with the subsequent cleansing of greasy apparatus, surely they are worth more than the prices generally charged.

Yours faithfully,

MEL BORACIS (10/1).

Liquorice Growing in England

SIR,—With reference to your paragraph "Home-Grown Liquorice" under Topical Reflections (*C. & D.*, January 8, p. 31), the reason the liquorice plant has gone out of cultivation in England except for a very small quantity still grown round Pontefract, is undoubtedly that the soil and climate in this country are not generally suitable for it to flourish sufficiently to be cultivated on an economical basis. I had some growing in my garden for many years, but the bushes came up much the same each year and the roots did not multiply and spread as they do in the soils of the Mediterranean and Near-East countries, whence to-day emanates nearly the whole world's supply of liquorice. Furthermore, the labour costs for digging, drying, stacking, etc., would be very heavy in England compared with less advanced countries.—Yours faithfully,

Ruislip, Middlesex.

R. S. HARRISON.

Stock Lectures

SIR,—I conclude that the letter of Mr. George L. Hale, of Birkenhead, in your issue of January 8 (p. 55) was written hurriedly, as it includes at least two sentences suggesting what J. S. Mill calls "the fallacy of confusion." Mr. Hale writes, "... should not a councillor visit a branch in a friendly spirit and give an address on any topic he should choose or think interesting?" There is an implied distinction here, whether intended or not, between what may be selected and what may be interesting. Let us suppose that a councillor of the Pharmaceutical Society chooses, and that the Council endorses his choice, of the following subjects:—(1) The differential calculus; (2) the acoustics of Aristoxenus; (3) the Hegelian philosophy. Would Mr. Hale accept any of these as suited to any but specialist audiences? "Interesting," the alternative, is a word of various meanings, comprising anything from pure science to a village concert. Mr. Hale ends thus: "Surely the social spirit and the educational value ... are quite as important as trade matters. For even in these latter you cannot do much until you improve the social position of the pharmacist." There seems to be a double confusion here, first in the relationship of the phrases "social spirit" and "social position," and secondly in the implication that an improved social position can improve trade; the latter reads like an inversion of what experience teaches.

If your correspondent will look again, as I have done, at the editorial article to which he refers, I think he will find that the point is not whether Mr. X. or Mr. Y. is a capable lecturer, but whether the Pharmaceutical Society should encourage its councillors to give stock lectures. I am not suggesting that in no circumstances should a member of the Council do this kind of work; but I hold the view that in these days of strenuous committee duties (of which we hear a good deal) the average councillor can hardly do justice to his stock lectures in addition unless he is free from the exacting claims of business.—I am, etc.,

ABSIT INVIDIA (11/1).

Cut-Price Trading

SIR,—May I put this question to retailers? Are you, as a chemist, satisfied with the present organisation dealing with cut-price trading? I firmly believe that an association of retail chemists only is needed, one owing fealty to no manufacturer or wholesaler, to combat this evil. I have already collected a nucleus of chemists interested in the formation of such an organisation. Will you add your name to the list? Please write to me personally at the address below—do it now, and help to keep your legitimate trade from being slaughtered.

Yours truly,

JOHN A. HAINSTOCK.

179 Blackstock Road, London, N.5.

SIR,—Whether there is any truth in the suggestion that company pharmacies hold out the dispensing service as a bait (*C. & D.*, January 8, page 44), only those who direct the policies of these concerns could tell us for certain. But if the bait is successful in attracting custom to the other departments of the store, I do not think it diverts any considerable amount of dispensing practice from the private chemist. It has been observed, especially by those chemists whose premises are in close proximity to a chain shop, that many people who buy their fancy goods from the store bring their prescriptions to the single pharmacy, although in the case of panel customers it may well seem to the chemist that he is doing all the unremunerative work and losing the profitable sales. At any rate, this tends to prove there is still a large class of the public who prefer to obtain their medicines from the individual chemist, and he should endeavour to make the most of this by proving he can provide the service and supply the goods as advantageously as the stores. However, it is with packed drugs the private chemist feels the competition of the stores most. Such items as aspirin and cascara tablets, liquid paraffin, chemical food and glycerin of thymol are advertised at prices considerably below those normally charged by the average chemist, and also below those quoted in the retail price lists, and the necessity to meet this competition has brought down the standard of prices all round. To the remark that some store is selling a hundred aspirins for 8½d. one is told that it can be done on the current wholesale rates. I know it can, if one buys in quantity, but these drugs are not bought by the passer-by because they are cheap or a bargain, but only when they are required for some ailment. They comprise, or should do, the staple lines of a chemist's trade, and as such he is entitled to a fair margin of profit on them. There is no sense in cutting the prices for drug sales when there are so many proprietaries which have to be sold at a profit barely covering their selling expenses. The proposal in New Zealand to confine to pharmacists all retail sales of B.P. and B.P.C. substances has long been advocated by chemists in this country, the principal argument raised against it being the old one of granting a monopoly. But there is sufficient competition in the trade itself to prevent prices rising to an undue level, although it might stabilise them at rates fair to all parties.

Yours faithfully,

"BAITED" (10/1).

Public Medical Services

SIR,—I feel very strongly on this question of public medical services and particularly on that of the payment for dispensing. What really happens is, when the question of a

service for a community is mooted in the first place, the chemists themselves, when consulted on the subject, assume that they will be paid according to the N.H.I. Tariff; they never appear to put up a fight which could turn upon, say, the charges for the drugs at the present Tariff rates, but with a higher fee for dispensing. What is the matter with us? We seem to accept everything that is put upon us without a kick. It is a common experience in life that those who make themselves unpleasant in demanding something usually get it: the reward for the meek usually is that they get trodden upon. When shall we learn the lesson that it is no good depending either upon Bloomsbury or Queen's Square for help? The only ones who can help us are ourselves. Before long we shall find that payment for private dispensing will be forced down to the N.H.I. level, and don't forget that any supplies of dressings and so forth, if allowed on a public medical service, will be at cost plus a miserable fee.

Faithfully yours,
AJAX (8/1).

Apprentices and the Future

SIR,—The apprenticeship statistics compiled by the Leeds and District Branch of the Pharmaceutical Society (*C. & D.*, January 1, p. 2) are worth studying from several points of view. In spite of the fear that the individual pharmacist is in danger of extinction by the spread of multiple shops, there are twice as many apprentices serving their pupilage with private chemists as with companies. One would naturally expect them to look forward to becoming proprietors themselves, having been trained by a private owner, and it would appear they are not apprehensive there will be no scope for them in the future. Then we see that the number of apprentices serving has dropped by nearly one-third between 1935 and 1937, and it leaves only two whose terms will expire in 1941. There is no indication whether the number of 105 in 1935 was a normal or exceptional figure, but in any case it is evident there will be a big drop in those ready to qualify in three years' time, and if this position is comparable with the rest of the country the problem of unemployment for qualified men experienced in some recent years will become a thing of the past; indeed, the whole conditions will be reversed, and there will be a shortage. One other surprising detail is that no fewer than twenty-four apprentices are serving a period of four years, and of these eighteen are bound to company chemists. In times gone by it was customary for apprentices to serve for five or even seven years, but for a long period now the accepted time has been three years. One would like to know what are the reasons for returning to the four-year term, and if there are any special causes why it should be more particularly adopted by company chemists.

Yours faithfully,
INTERESTED (10/1).

Points from Letters

Appreciations

We believe this is the forty-sixth annual subscription we have paid: the writer, who was established in 1891, took the *C. & D.* for four years prior to that time.—*B. & C.* (21/12).

I beg to thank you for *The Chemist and Druggist Year Book and Diary* for 1938 which has come to hand. I note that it maintains its high standard, and the information contained therein is very useful.—*D. J. W.* (10/1).

We beg to express our sincerest thanks for *The Chemist and Druggist Diary and Year Book*, 1938. This particularly useful publication proves a welcome and interesting handbook, and year by year it is still improving.—*A. R., Hamburg* (7/1).

Insurance Dispensing Expenses

In your report of a meeting of the South-East London Chemists' Association (*C. & D.*, December 25, p. 725), at which Mr. Tocher spoke on N.H.I. pharmaceutical service, he is reported to have said:—"Expenses could be claimed for having to procure a drug not required to be kept in stock." This statement should be qualified by restricting it to proprietary preparations, and probably that is what Mr. Tocher had in mind.—*A. E. B.* (30/12).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

C. & C. (9/10).—GLYCERIN ANTIFREEZE.—The preparation of glycerin used in an anti-freezing mixture for motor-car radiators is governed not by the size of the radiator but by the temperatures that are considered likely to be met with. Below is a table showing the freezing points for various glycerin and water mixtures:—

Glycerin per cent.	Water per cent.	Freezing points in degrees F.
10	90	27
20	80	23
30	70	15
50	50	— 9
60	40	— 30

A. F. W. (Uganda) (11/10).—CURING A CROCODILE SKIN.—We are not aware of a special method for the curing of crocodile skins, but it is probable that the following method for preparing snake skins will be applicable. The skin is soaked in cold water containing a little salt to soak out the blood; rinsed in water and squeezed out; immersed in cold carbon tetrachloride for ten hours to degrease it; hung half an hour for the carbon tetrachloride to evaporate; placed in equal parts of solution of hydrogen peroxide and water for a few hours; rinsed in water, squeezed out and placed in glue-glycerin solution and allowed to remain overnight. The temperature at which it is kept in this solution should be just sufficient to prevent the glue from becoming rubbery. Next morning, the skin is rinsed in water, squeezed out, thoroughly scraped all over the inside, rinsed and squeezed again and wiped dry with cheesecloth. The glue-glycerin is prepared as follows:—

Water 1 part
Glycerin 1 part

Carpenter's glue, thin and warm, is added until, when cooled to the temperature of the room, the solution does not form a jelly.

The tanning process will no doubt have considerable bearing on the softness of the resultant skin, and it may be of assistance to you to bear in mind that the softness is increased by adding to the amount of acid in the pickling solution.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," January 14, 1888

The Inland Revenue and the Possessive Case

A correspondence has lately passed between a well-known firm of chemists at Edinburgh and the Board of Inland Revenue, from which it appears that the Board are inclined to support their officers in Scotland in the claim that preparations labelled as "Blaud's Pills," "Gregory's Powder," "Gregory's Pills," "Hamilton's Pills," "Christison's Pills," and other such preparations, most of them very frequently sold in the North, are by such appellations rendered liable to medicine-stamp duty. . . . After some more correspondence we understand the discussion was brought to the knowledge of the President of the Pharmaceutical Society, who visited the authorities at Somerset House, and on his suggestion labels were drawn up which the Board, after considerations, agreed to regard as not liable to stamp duty. These were worded thus:—

Compound Colocynth Pills (Gregory)	Colocynth and Henbane Pills (Hamilton)	Aperient Pills (Christison)
------------------------------------------	----------------------------------------------	-----------------------------------

It seems to us that this is a very lame and unsatisfactory conclusion. . . . It cannot be expected that a single firm will fight this question with the Board, but if the Pharmaceutical Council will not take it up, there ought to be interest enough in the question to get it properly argued out by some outside body.

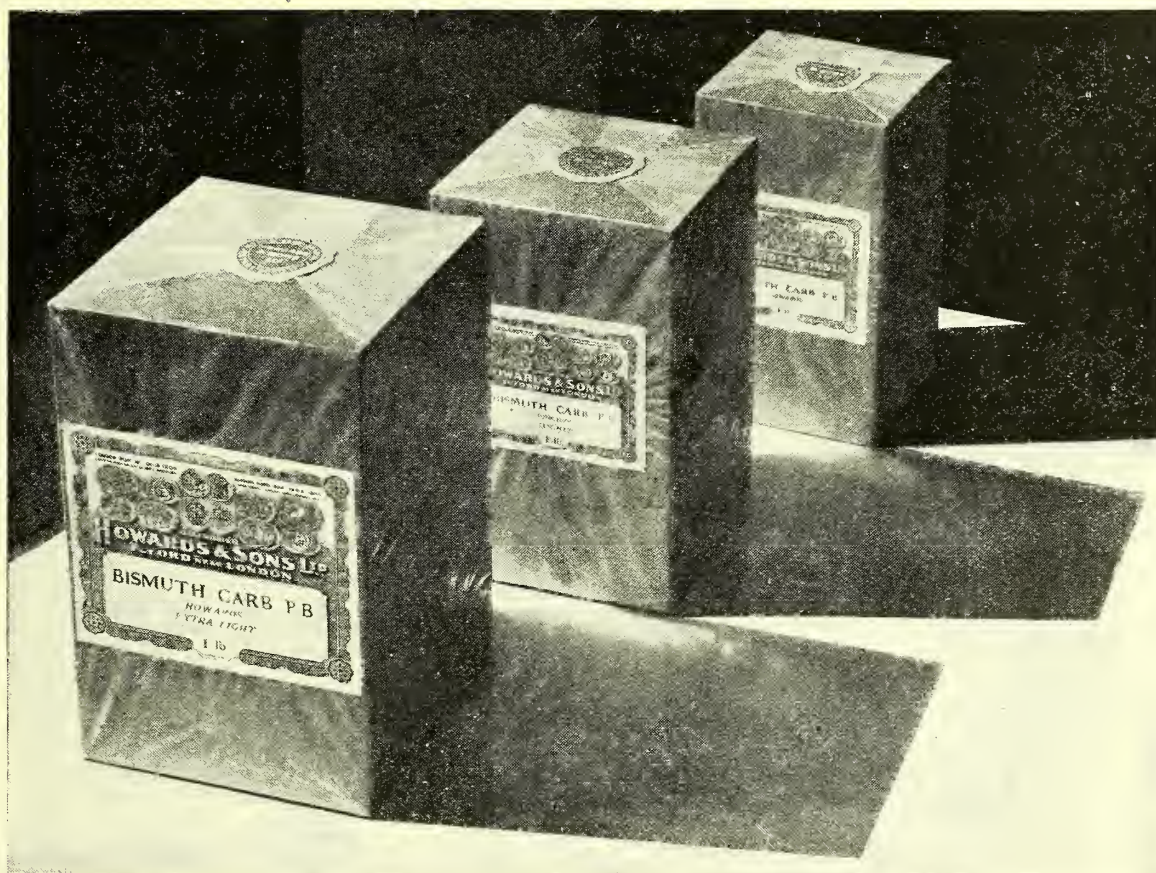
[The concession in regard to the possessive case was secured for the trade in 1904 (see *C. & D.*, 1904, II, 650).]

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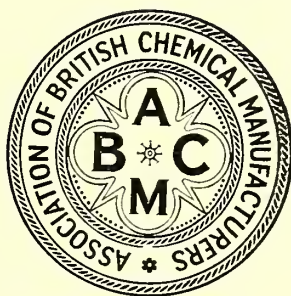
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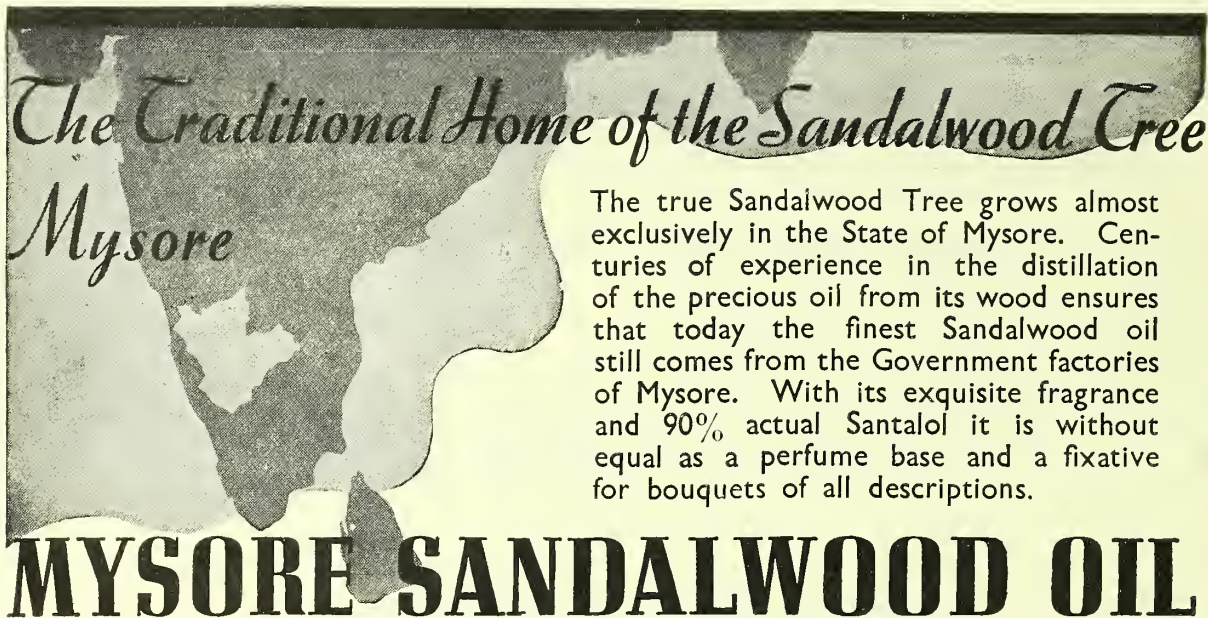
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Your Retail Chemist is YOUR FELLOW TOWNSMAN



The only person to take advice from when you are sick is a doctor. He is trained to help you—to diagnose your ailment and prescribe for you.

Help him all you can. Answer his questions thoroughly. He cannot tell what is hurting you. You have to tell him exactly how you feel, how the pain developed, how much it hurts, where it hurts and all about it. Then your doctor is able to determine the source of the pain. This is necessary in case of extreme headache, fever, and ailments in which there are no exterior symptoms as in the case of broken bones or wounds.

When the doctor gives you a prescription, have it filled by a pharmacist at the Rexall Pharmacy. The Rexall Pharmacist is trained to co-operate with your doctor.

He fills every prescription with fresh, potent ingredients. He double-checks it to assure accuracy. And, he prices it reasonably.

**CHEMIST'S NAME
AND ADDRESS
HERE**

You can trust your Chemist—your Doctor does!



For your protection and so that we may give you prompt service at all times, your prescriptions are always compounded by a registered chemist.

He is trained to co-operate with your physician. He uses only fresh, high-quality drugs. He double-checks every prescription to assure accuracy.

He welcomes visits from your physician to see and to know just how he works—to inspect his prescription department.

You can always depend upon your Rexall Pharmacy for reliable prescriptions. You will also like our reasonable prices.

**CHEMIST'S NAME
AND ADDRESS
HERE**

These announcements have been specially prepared to be used by individual Rexall Chemists in their local newspapers as 6-inch single column advertisements or as leaflets, wrappers, etc., to give people in your town a better idea of your service, qualifications and efficiency in safeguarding their health. Write to UNITED DRUG CO., LIMITED, NOTTINGHAM, for further information.

Wording by M. L. Daniels.



Your Doctor and your Chemist work hand in hand

Even though the Government sets a standard of quality for all medicinal ingredients used in filling prescriptions, the Authorities cannot check each and every pharmacy to be sure that your prescriptions are filled with fresh, potent ingredients.

At the Rexall Pharmacy your prescriptions are always filled with fresh ingredients of quality recommended by Government Standards or better. Then, too, every prescription is double-checked to assure absolute accuracy in the compounding.

Also, the Rexall Plan of pricing ensures prescriptions at the most reasonable prices.

All prescriptions are filled promptly by a pharmacist. Bring your prescriptions to the Rexall Pharmacy for personal attention, courtesy and quick service.

**CHEMIST'S NAME
AND ADDRESS
HERE**

When your Doctor prescribes your medicine



—it's your Chemist who
must **MAKE IT!**

Happiness is dependent on good health. But children or grown-ups in good health, even under the most carefully regulated life, are often beset with sickness.

Never take chances at such a time—go to your doctor at once. He is trained to help you. Take his advice. Follow his instructions. He will advise you how to regain your normal health quicker.

And, when he gives a prescription, bring it to the Rexall Pharmacy, where it will be compounded by a fully qualified chemist.

Only fresh, highest quality ingredients are used. Every prescription is double-checked to assure accuracy. And, each prescription is reasonably priced according to the ingredients. Promptness in filling is a service you'll appreciate, too.

So bring your next prescription to the Rexall Pharmacy in
—Look for the Rexall Sign.

**CHEMIST'S NAME
AND ADDRESS
HERE**

Be careful when taking medicines



Many people observe these rules, but everyone should have these posted on the back of the medicine cabinet door.

1. Never take medicine in the dark.
2. Always read the directions before taking a dose.
3. Never increase the dose or take the medicine more frequently than prescribed without consulting your physician.
4. Keep the label upwards when pouring. This keeps the label clean.
5. Shake any liquid medicine before taking.
6. Never take medicine prescribed for someone else.
7. Keep medicine out of reach of children.
8. Never leave a medicine bottle or box open. Close immediately after using.
9. Never mix tops or covers of boxes or bottles.
10. Never pour any medicine back into the bottle.

And when you want your prescriptions compounded with absolute accuracy, the freshest and purest ingredients, at reasonable prices, come to the Rexall Pharmacy in or telephone

**CHEMIST'S NAME
AND ADDRESS
HERE**

How the Retail Chemist safeguards the Public

Few people realise how zealously their interests are safeguarded by the authorities responsible for the education and training of the retail chemist. Here is a list of the Acts of Parliament the duly registered and qualified chemist has to be thoroughly familiar with: The Pharmacy & Poisons Act, Dangerous Drugs Acts, Food & Drugs Act, Shops Act, Weights & Measures Act and The Spirits Act.

At any moment of the working day, inspectors may call at the individual chemist's pharmacy to ensure that the official requirements are being complied with and the chemist who is, of course, your fellow townsman, welcomes these visits because he has the welfare of the public at heart.

**CHEMIST'S NAME
AND ADDRESS
HERE**

Arrangement by C. F. H.

Increase your turnover

by keeping well stocked with

PHOSFERINE

BRAND TONIC

The Greatest of all Tonics

In addition to our great press advertising campaign, a new stimulus to public demand is being given through an attractive and interesting film entitled "Nerve", in full colour, which is being shown in cinemas throughout the country.

The PHOSFERINE "NERVE" FILM

*is showing at these theatres week
commencing January 17th*

ASHFORD, KENT, Cinema de Luxe, High Street.
BISHOPS STORTFORD, Regent Theatre, South Street.
CAMBORNE, King's Theatre, The Square. (Last 3 days).
CAMBORNE, Scala Theatre, St. George's. (First 3 days).
ELY, CAMBRIDGE, Rex Theatre, Market Street.
GATESHEAD-ON-TYNE, Shipcote Hall, Durham Road.
LUTON, BEDS, Alma Theatre, Alma Street.
MANCHESTER, Regent Super, Fallowfield.
NEWPORT, MON., Capitol Theatre, Dock Street.
NORTHAMPTON, Cinema de Luxe, Campbell Street.
NORWICH, Theatre de Luxe, St. Andrew's Street.
OXFORD, Majestic Theatre, Botley Road.
SOUTH SHIELDS, Palace Theatre, Frederick Street.
TRURO, CORNWALL, Regent Theatre, Boscawen Street.
UXBRIDGE, MIDDLESEX, Savoy Theatre, High Street.
VAUXHALL, S.W., Granada Theatre, Wandsworth Road.

LIQUID and TABLETS 1/3, 3/- and 5/-
Carriage Paid Monthly A/c

*Window display terms in United Kingdom on
application to—*

PHOSFERINE (ASHTON & PARSONS) LTD.

**La Belle Sauvage, Ludgate Hill,
LONDON, E.C.4.**



**EVERY COUGH
IS A CALL FOR
KAY LINSEED
COMPOUND
COUGH CURE**

All Chemists
1/3 & 3/-

**Keen buyers buy
20/- & 50/- lots**

Available through your Wholesaler
or write **KAY BROTHERS LTD.**
Makers : Kayborough, Reddish, STOCKPORT

British Made

"Adaptocaps"

for all
your
bottle
Capping



The London Capsule Co.
EMPIRE WORKS, MITCHAM RD. CROYDON
TELEPHONE : THORNTON HEATH 1234/5 TELEGRAMS : "METACAP, CROYDON"

YOU CAN INCREASE -

— your turnover and secure greater profits by exhibiting the attractive PAG JUNIOR Show Stand in your window.

Many chemists throughout the country are already profiting by the constant demand for the RIDDELL Asthma Treatment—the treatment that has received the unqualified approval of the medical profession.

Write to-day for full particulars.



FRANCIS RIDDELL LTD.

AXTELL HOUSE, WARWICK STREET, REGENT STREET, LONDON, W.1.

A MESSAGE TO CHEMISTS IN LANCASHIRE AND THE MIDLANDS !

For over 70 years Jackson's Febrifuge has had a growing sale in Lancashire. Now we are boosting it with advertising throughout Lancashire and the Midlands. Its popularity is growing by leaps and bounds! It is one of the finest, purest and most efficacious patent medicines ever marketed; its demand has increased solely through constant recommendation! Give it a trial. It will not stay on your shelves. Recommend it and gain the thanks of your customers and good profits for yourself. It is backed by a lively concern, who support you by constant advertising, and literature and showcards on request.

JACKSON'S FEBRIFUGE

for Quick Sales and GOOD PROFITS

JACKSON'S FEBRIFUGE 1/3, 3/- & 5/- BONUS SCHEME IN OPERATION

Also other famous specialties
DRAWING OINTMENT, CAMODENE SOAP &
OINTMENT, PINE DISINFECTANT

Geo. Jackson & Son Ltd., Harpurhey, Manchester



"Ask Your Chemist for"

Doans
BRAND
Backache Kidney
Pills

THIS WEEKLY MESSAGE to over 22,000,000 readers of the National Press is a regular feature of our advertising. We send profitable customers to your Pharmacy. Will you please ensure that sales are not lost through lack of supplies?

Counter Wrappers, Booklets and Showcards
willingly sent at your request

Foster-McClellan Co.

37-41, Mortimer St., London, W.1.

Paraffinum Liquidum B.P.

ALL
GRADES
SAMPLES & PRICES

On application
to

Sterns Ltd.
16, Finsbury Sq., London, E.C2

Telephone: National 7644 (7 lines)
Telegrams: Centumvir, Phone, London

ALSO
TECHNICAL
QUALITIES

WHOLESALE ONLY

First Dutch Factory of Medicinal Gelatine Capsules

LAMBO BUSSUM HOLLAND
INHALENT CAPSULES

for

Colds - Nasal Catarrh - Hay-Fever

The most hygienic medicament
Packing under your own name and address
Bulk price, per bottle of 1000's 14/6
Ask for free samples!

A Safe line
to stock!

HALIBARS



**SUGAR
GLUCOSE
LEMON
HALIBUT LIVER OIL**

GUARANTEE. We guarantee the purity of every Halibar we make. Only the **FINEST QUALITY HALIBUT** Liver Oil is used and every fresh consignment is tested for purity and vitamin content before use. **PURE** (not synthetic) lemon juice, sugar and glucose only are ever used in Halibars.
J. BOTTOMLEY & SONS LTD., Keighley, Yorks

J. BOTTOMLEY & SONS LTD.
VICTORIA PARK WORKS, KEIGHLEY

For all grades of
SAMPLES & PRICES for
prompt delivery write:

CRODA LTD
GOOLE - YORKS

Phone: Rawcliffe 40 & 41. Grams: Croda, Goole.

LONDON OFFICE:
BURNLEY HOUSE,
N.W.10
Olive Oil

IONIZED IODINE

(MOLSON BRAND)

Obtainable from the usual wholesalers or the makers

MOLSON IONIZED IODINE CO. Ltd.

34 C, GABRIEL'S HILL, MAIDSTONE

AZYMA CACHETS

PRICE REDUCED TO 2/6 per 1000

ALL SERIES & SIZES



WET CLOSING
CACHETS

•For samples write to the Sole Agent

CICERO S. CLARK

12 CHEPSTOW ROAD · W · 2

TELEPHONE · BAYSWATER 0116



DRY CLOSING
CACHETS

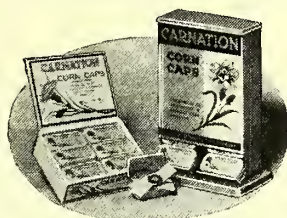
Profitable Pharmaceutical Products



"HEALO"

Thousands of testimonials have been received. Build up goodwill and bigger, better profits with this ointment.

Profit, 50%



CARNATION CORN CAPS

Nationally advertised and attractively packed. These give infinite satisfaction in use. Repeats and recommendations are certain.

Profit, 95%



"EUPINAL"

Build up profitable business with this excellent preparation. It may be recommended with the fullest confidence.

Profit, 67½%

CUXSON, GERRARD & CO. LTD.
Manufacturing Chemists OLDBURY, BIRMINGHAM.

Paramount

PRODUCTS

The Public prefer Paramount Confections

PERFECT PACKS
PRODIGIOUS SALES
PHARMACEUTICAL QUALITY

PARAMOUNT PRODUCTS LTD.
BRITANNIA HOUSE, BRADFORD

London Depot:
St. Leonards, East Sheen, S.W.14

Pharmaceutical

CASTOR

PREMIER

OIL

Tasteless
Water-White

Made in England by

**THE PREMIER OIL
EXTRACTING MILLS**

HULL Ltd

Telegrams: "Premier, Hull"
Telephone: 15191 (8 lines)

ESTABLISHED 1793

ATKINSON & BARKER'S
INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of
140 years' standing.

Does not contain any Scheduled Poison.

ROBERT BARKER & SON, LTD.
13 WESLEY ST., C. on M., MANCHESTER

OLD THINGS ARE BEST



For a thousand years
Norwegian Medicinal
Cod Liver Oil has
been renowned as
Nature's own cure.

NORWEGIAN MEDICINAL COD LIVER OIL

WORLD-FAMOUS FOR QUALITY



SCOTLAND

S. V. M.

Register to keep the
particulars of sale of
this and also of
Surgical Spirit, as
now required by the
New Act.

Price **3/-**

JAMES TOWNSEND & SONS
EXETER

(London Office: 29, FARRINGDON ST., E.C. 4)

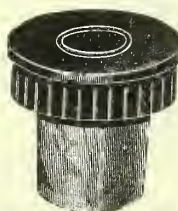
Halibut Liver Oil

OF HIGH VITAMIN POTENCY

also Halibut Liver Oil Capsules and Emulsion
Ask for samples and prices

LOFTHOUSE & SALTMER LTD - HULL

COMPOSITION STOPPERS
BAKELITE MOULDINGS
COMPACTE COSMETIC & ROUGE BOXES



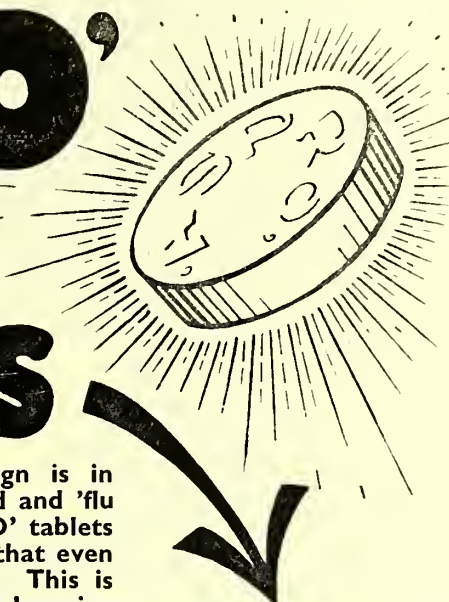
200 Varieties
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



W. J. SHARPLIN, Ltd. Telephone: Mountview 0952
Middle Lane Works, Hornsey, LONDON, N.8

'ASPRO' WINTER ACTIVITIES



A specially intensive 'ASPRO' advertising campaign is in progress—it will be continued right through the cold and 'flu period. As during last year the demand for 'ASPRO' tablets is rising steadily week by week. There is every sign that even last year's rocketing sales figures will be exceeded. This is significant—it means that more and more people are learning the value of 'ASPRO' service.

'ASPRO' winter advertising comprises over £100,000 worth of newspaper space—widespread broadsheeting—and a vast distribution to chemists of window display material and selling aids. Years of publicity on this scale have created hosts of permanent 'ASPRO' users in every town in the kingdom. It's because of this that 'ASPRO' displays are the most powerful sales-makers in existence—use them and you bring in NEW customers. So take part in this great winter activity—

JOIN IN WITH A PERMANENT 'ASPRO' DISPLAY

**PRESS
ADVERTISING
IN 300
PAPERS**

**BROADSHEETING
OVER HALF
THE COUNTRY**

NEW SALES AIDS

**AVAIL YOURSELF OF
THE 'ASPRO' BONUS**

BONUS ON 5's & 10's

One gross order ... Bonus 1 dozen packets
Half gross order ... Bonus ½ dozen packets
Half gross of either size is the minimum order
accepted for bonus purposes.

BONUS ON 27's

One gross order ... Bonus 2 dozen packets
Half gross order ... Bonus 1 dozen packets
Quarter gross order Bonus ½ dozen packets
Quarter gross is the minimum quantity.

NO BONUS ON 60's

BONUS CONDITIONS—The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.

**Here's the
latest one**



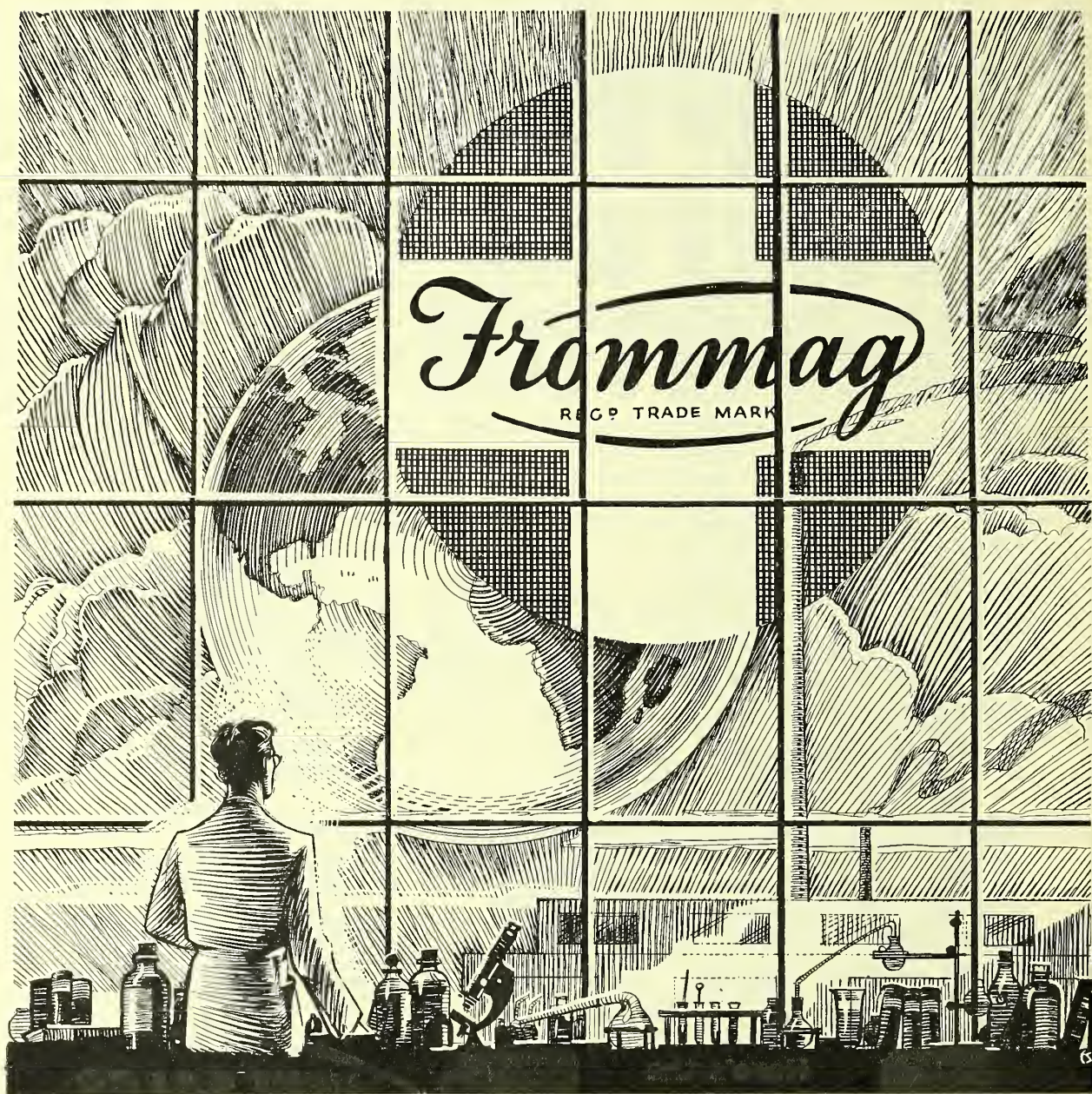
'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by ASPRO LIMITED, Slough, Bucks.

Telephone : Slough 608



No proprietary right is claimed in the method of manufacture or the formula.



FROMMAG CHEMICAL CONTRACEPTIVE PRODUCTS

Manufactured in England in the Laboratories of Herbert Fromm, these products carry the full recommendation of the Medical Profession.

Produced only after long and exhaustive research, they embody all the latest discoveries in chemical contraception.

They are attractively packed and profitable to handle.

Send for list giving full details and prices.

Manufacturers and

Sole Distributors :

HERBERT FROMM

29/31 OXFORD STREET, LONDON, W.1

Telephone : Gerrard 6258-9

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 15, 1938

28 ESSEX STREET, LONDON, W.C.2

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for DISPOSAL. PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

LEGAL NOTICES, TENDERS, AUCTIONS, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

MISCELLANEOUS (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

EXCHANGE COLUMN (for Retailers, etc.)—**Twopence** per word, minimum 2/- (Box No., 1/- extra.)

REPLIES FROM ADVERTISERS—1/- per line; 3 lines 2/6.

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

CLOSING FOR PRESS

must reach us
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for
insertion in this Supplement

ORRIDGE & CO.

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending

buyers to communicate with us, stating their requirements

1.—**NOTTING HILL**.—Good Class Dispensing Business; established over 100 years; takings last year £2,750; good profits; valuable lease; price required £1,350 all at or near offer.

2.—**EDGWARE (NEAR)**.—Middle and Working Class Cash Retail Business; takings last year £2,633; net profit over £600; extensive Panel; good representative stock; inclusive purchase price required £1,500.

3.—**LONDON, E.C.**—City Trade; takings last year £2,125; net profit £320; stock worth £350; reasonable rental; long lease; inclusive purchase price £750.

4.—**NUNHEAD (RETIREMENT VACANCY)**.—Old-established Business making approximately £5 per week net profit; scope; nice living accommodation; new lease at reasonable rental; inclusive purchase price required £450.

5.—**CENTRAL LONDON**.—High Class Retail and Dispensing Business for sale owing to retirement of Vendor; takings over £3,000 per annum; beautifully fitted shop, heavily stocked; rent and rates about £155 per annum; inclusive purchase price required £2,500, or valuation terms would be entertained.

6.—**FRINTON (NEAR) (RETIREMENT VACANCY)**.—General Retail Business; takings last year £2,284; gross profit £976; premises for sale for £1,100; heavy stock; nice fixtures; splendid living accommodation; price required for the goodwill £600, plus stock and fixtures at valuation.

7.—**GLOUCESTERSHIRE**.—Ill-health necessitates immediate disposal of a General Retail Business, established 9 years ago; turnover last year £1,200; gross profit £420; stock worth £400-£450; very nice living accommodation with garden and private entrance; rent £60 per annum; no reasonable offer refused.

8.—**SOUTHEAST-ON-SEA (NEAR)**.—High Class Retail and Dispensing Business; takings this year will be about £3,300; in present hands 15 years; rent £225 per annum; sublet £78 per annum; price required £1,250 for the fixtures, fittings, lease and goodwill, plus stock at valuation.

9.—**HOVE**.—Part payment terms entertained; General Retail Business offering scope for increase; takings last year £1,194; gross profit £356; corner position; stock worth £300 and fixtures £200; premises can be purchased or leased; living accommodation if required; price required £150 for the good will, the stock and fixtures to be taken at valuation.

10.—**MIDLAND CITY**.—Old-established Business; gross profit last year £1,976; scope; rent and rates about £600 per annum; qualified manager employed; stock and fixtures estimated to be worth about £2,000; full particulars upon application.

11.—**JERSEY**.—Owing to the death of Mr. G. T. Miller, his business is for immediate disposal; returns about £1,000 per annum; fixtures estimated to be worth £200 and stock £400-£450; living accommodation over; sub-Post Office attached; purchase price required £900 all at, or near offer.

12.—**BARKINGSIDE**.—Main road Cash Retail Business; beautifully fitted Pharmacy, very well stocked; takings last year £1,251 under management; stock and fixtures estimated to be worth about £650; reasonable rental; long lease; inclusive purchase price required £600 or near offer.

13.—**LIVERPOOL**.—Vendor going in for Medical—Family Retail and Dispensing Business; takings last year £1,549; gross profit 40 per cent.; modern mahogany fixtures; stock worth about £450; lock-up shop; rent £70 per annum; price required £480 plus stock at valuation.

14.—**BURTON**.—Old-established Business for sale with or without premises (a lease might be granted); turnover approaches £3,000 per annum; good profits; living accommodation; stock worth £650, fixtures £250; price required for Business and Property £3,200, or price for business alone £1,650.

15.—**SUFFOLK COAST**.—Good Class Retail Business; takings last year £1,321; stock worth £476; gross profit 35 per cent.; nice living accommodation with four bedrooms; inclusive purchase price £850.

16.—**BARNET (NEAR)**.—High Class Dispensing Business; takings last year £2,260; net profit £456; stock and fixtures estimated to be worth about £1,150; very nice living accommodation; full particulars upon application.

17.—**EPSOM (NEAR)**.—Good Class General Retail Business; takings last year £2,357; good profits; modern living accommodation; rent £175 per annum; inclusive purchase price £750 with a guaranteed stock figure of £350.

18.—**SUSSEX COAST**.—Middle Class Cash Retail Business; takings last year £1,468; net profit £408; comfortable living accommodation; rent £85 per annum; long lease; inclusive purchase price required about £1,000, or valuation terms would be entertained.

19.—**ELEPHANT AND CASTLE (NEAR)**.—Main road Cash Retail Business taking over £4,000 per annum; extensive Panel; heavy stock; nice fixtures including two National Cash Registers; new lease; full particulars upon application.

20.—**ESSEX**.—Ready money Cash Retail Business; takings about £500 per week and increasing; excellent profits; modern flat over; rent £150 per annum; inclusive purchase price required £1,750, or valuation terms would be entertained.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate, Sales by Auction

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants

ERNEST J. GEORGE & Co.

Bank Chambers, 329 High Holborn, London

Telephone Nos.: Holborn 7406 & 7407 (2 lines)

W.C.1

County Bldgs., Bridge St., Walsall

Telephone: Walsall 3774

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) CENTRAL, LONDON.—Good-class business, occupying prominent position in busy main thoroughfare; rapidly increasing turnover, which for the current year should approximate £7,000, with a net profit of about £850; excellent scope for further development; genuine reason for selling; price £3,500, all-at; open to offer.

(C2) BRIGHTON.—Old-established family business, occupying good position in populous suburb; increasing turnover, now at the rate of approximately £1,800 per annum; up-to-date house with three bedrooms, bathroom, etc., 21 year lease; price about £1,600, including heavy stock and valuable fixtures.

(C3) RUISLIP (NEAR).—Branch business, with good scope for increase; turnover for last financial year, £1,702; gross profit £662; net (before allowing for Manager's salary) £404; up-to-date house; rent £110; price £1,250 or very near offer.

(C4) BALHAM.—Family business of attractive appearance; turnover upwards of £1,700 per annum; low overheads; populous area to draw upon; price £1,000 or near offer, including stock and fixtures estimated at £800.

(C5) SURREY (£300 ALL AT, OR NEAR OFFER).—Unopposed, up-to-date Pharmacy, with small modern flat above; rapidly growing district; turnover for last financial year, £865; rent £80; stock about £200; excellent opportunity for chemist with small capital, desirous of purchasing a business that should be capable of considerable development.

(C6) SHROPSHIRE (DEATH VACANCY).—Excellent country business for immediate disposal; yearly sales approximately £1,250; no opposition; good saleable stock, estimated at £300; rent £30; rates £8; immediate possession granted and first reasonable offer accepted.

(C7) NEWCASTLE-ON-TYNE.—Modern Pharmacy with house attached, situated in shopping parade; returns about £23 weekly; reasonable rental; price about £350 all-at. Offer considered.

(C8) WALHAM GREEN (NEAR).—Well established with increasing turnover; returns for 1936, £1,262; gross profit £478; rent £58 per annum, including living accommodation; no Sunday duty; price £820 or near offer.

(C9) SUFFOLK.—Good-class business with excellent house; main road position, the value of which is likely to increase substantially; present returns upwards of £1,250; stock £500; price £850, or near offer.

(C10) LONDON, W.C.—Old-established family and dispensing business, with large N.H.I.; turnover now at the rate of over £2,500 per annum; net profit to Owner-Proprietor about £550; certified accounts; reasonable

rental; no near opposition; price £1,500 or near offer; £800-£900 down and balance by arrangement.

(C11) HABLESDEN.—Opportunity to purchase main road business showing a present net profit of approximately £700 per annum, on payment of a cash sum in the region of £700-£800, and the balance by easy instalments, which would be provided out of the earnings of the business; Owner leaving Pharmacy for lucrative appointment; the business is of the "store" type, and the premises contain extensive living accommodation, which can, if desired, be very profitably sub-let; this is an opportunity the equivalent of which does not frequently occur, and immediate application is advised.

(C12) SHAFTESBURY (DORSET).—Exceptional opportunity to acquire well-positioned business with living accommodation, for considerably less than value of stock and fixtures (estimated to be worth £1,200); £650 all-at will purchase; turnover for last year, £1,436; abundant stock; proprietor has had to retire owing to age and illness; 21 year lease at £130 per annum exclusive.

(C13) COMMERCIAL ROAD.—Opportunity to acquire prominently situated business for value of stock and fixtures only; reasonable overheads; excellent prospects; price about £600 (slightly less for cash) or £350, and remainder over twelve months.

(C14) SOUTH STAFFS.—Old-established; at present under management; turnover upwards of £1,600 p.a.; living accommodation; very reasonable rental; price £900 or near offer.

(C15) NOTTS.—Middle-class, cash business, with up-to-date house; turnover for last financial year, £1,820; rent £78; freehold can be purchased if desired; no near opposition; price £1,300, including stock £1,000; reasonable offer considered.

(C16) HOVE.—Attractive modern Pharmacy, situated in prominent shopping thoroughfare; turnover now at the rate of about £1,500 per annum; should reach £3,000 within a short period; new front recently installed; price £950, or reasonable offer.

(C17) BIRKENHEAD.—Business and property, including living accommodation; in present hands over 30 years; turnover for last financial year £1,634; gross profit £588; good N.H.I.; reasonable price, part of which can be raised on mortgage.

(C18) LONDON, E.C.—City Business with increasing turnover, now at the rate of about £2,200 per annum; no week-end duty; genuine reason for selling; price £750 all-at.

(C19) KENTON.—Main-road business, situated in growing district; turnover £2,092; gross profit £803; living accommodation; price £1,250 or near offer.

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(Business Agency, Transfer & Valuation Department)

KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS, Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.

PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).

VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.

Enquiries Invited.

BUSINESSES FOR DISPOSAL

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

CHORLEY, Lancs.—For Sale, as a going concern; well-established Chemist's shop. For particulars and to view, apply Harry L. Price & Co., Incorporated Accountants, 47 Mosley Street, Manchester 2.

LANCASHIRE.—Old-established Chemist's Business; returns last three years average £1,386 per annum; stock about £600 (will be reduced to suit purchaser); fixtures, fittings and utensils £250; commodious premises; rent £75 per annum. Further particulars apply 318/571, Office of this Paper.

LIVERPOOL.—Mr. Harold Lomax is desirous of disposing of his branch, the St. Luke's Pharmacy, 38 Berry Street (top of Bold Street); turnover approximately £1,500 (including N.H.I. Panel); rent £65; rates £35; lease 7 years; established 60 years ago; well fitted all-glass serving counter, silent salesmen, mahogany shopfront; price, goodwill, fittings, fixtures and utensils, etc., £300; stock at valuation, £250 to £300 (part purchase price could remain over an agreed period); low price asked as a quick sale is desired. Reply Harold Lomax, M.P.S., 17 Tarleton Street, Liverpool.

LIVERPOOL.—Thickly populated suburban district; genuine business; capable of much expansion; low rental, including small house, part which could be sublet; would suit good Dispenser; for quick sale; fixtures and fittings £150; stock at valuation. Apply Foster & Killip, 48 Castle Street, Liverpool.

MANCHESTER.—Genuine business for sale; takings £1,500 to £2,000 per annum; N.H.I. 600 per month; excellent double-fronted shop, modernly fitted, with very good living accommodation; rent and rates £106 per annum; stock at valuation; fixtures, fittings and goodwill, £550; deferred payment if desired. 59/53, Office of this Paper.

MANCHESTER (South). Business with good living accommodation; established 7½ years; turnover gradually increasing; N.H.I. prescriptions averaged 375 monthly in 1937; good fittings and stock; price, including stock, fittings and property at cost, approximately £2,000. 51/5, Office of this Paper.

SCARBOROUGH.—Well-fitted and stocked Chemist's business in main shopping street; turnover approximately £1,500 under manager; good prospects of increasing to £2,000 or over; price for stock and certain fixtures £700. Norman Hurtle, Atlas Chambers, King Street, Leeds, 1.

SOUTH STAFFS Market Town.—Drug Stores, central position; Kodak, heavy D. & P.; returns approximately £1,000 per annum; suit Chemist-Optician. Apply M. P. Ferney Hough & Co., Accountants, Longton, S.O.T.

SOUTH-WEST MIDLANDS.—Good-class progressive business in country town; well situated, modern fittings, extensive living accommodation; freehold; many agencies and proprietaries; good opening for Optics; turnover increasing; only those with over £5,000 at command need apply. No agents. Bankers' references. 58/11, Office of this Paper.

THAMES Valley, near London.—An opportunity for a beginner with small capital; nicely fitted Pharmacy; well stocked; established 1922; owner has been in ill health for some time; must sell quickly; price asked less than value of stock and fixtures. Particulars in confidence. Write 2 Knights Park, Kingston-on-Thames.

WEST END Business; well known; good profits; easily worked. 59/22, Office of this Paper.

ALL Overhead Charges met by Subsidiary Business. Exceptionally good opportunity for fully Qualified Chemist to start in main-road position without fear of failure. To those with small capital interested and wanting proof of this advertisement, write or call (Sunday no objection) to Owner, 12 Carbery Road, Southbourne, Bournemouth. Alight Irving Road bus stop. Telephone, Southbourne 1251.

CASH Business, Birmingham; price, cost of fittings, plus stock, approximately £400; house attached. 49/2, Office of this Paper.

DEATH VACANCY.—Old-established Chemist's and mixed trade; double-fronted shop and house to let at once; rent 50s. weekly, rates additional; stock at valuation; no other Chemist within a radius of 6 miles. E. N. Howe, Eynsham, Oxon.

DRUG Store in main road of London suburb, suitable for conversion to Chemist's business; good opening for young Qualified man, and the introduction of N.H.I.; long lease at economical rental, and excellent living accommodation, with private entrance; approximate purchase price, £200; for early sale. 318/577, Office of this Paper.

OLD-ESTABLISHED Pharmacy with P.O. attached; established over 50 years; no opposition; rent only £46; rates £22 per annum; P.O. salary £134; lease 12 years; good living accommodation; six rooms, kitchen and bath; a great bargain; reason for sale, ill health and old age (75); price asked only £250; stock at valuation. 60/19, Office of this Paper.

PROPRIETOR of good business with Optical department, retiring, wishes to meet smart business-like Chemist-Optician to enter into partnership with view to early succession; business situated East Coast seaside resort, and shows a net profit of nearly £600 per annum; purchase price £2,200. 58/24, Office of this Paper.

TWO businesses and property for sale for £2,000; great room for expansion; modern premises. 60/24, Office of this Paper.

WELL-KNOWN Proprietary Toilet Business for disposal; net profit in region of £4,000 per annum; scope for unlimited expansion; soundly established; tangible assets of considerable value; purchase price, about £12,000. 318/578, Office of this Paper.

£150 OR NEAR OFFER.—Rare opportunity occurs for energetic person to take over old-established Herbal and Hygienic Rubber Stores; guaranteed by trial more than a living; large double-fronted Shop and House of seven rooms, kitchen, yard; nicely decorated; main road, South London; rent only 25s. weekly inclusive; lease or agreement granted. c/o 226 Broadway, Bexleyheath, Kent.

£150.—Must sell, s.a.v. about £100, or will divide if necessary; Drug Store, well fitted; large modern imposing corner shop, market street; rent, after sub-lets, £1 per week; receipts peak week, £16; neglected; amazing prospects of development; scope for N.H.I.; London N.E. area. 57/2, Office of this Paper.

BUSINESSES WANTED

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A GENUINE Country Drug Store required, with living accommodation and garden. R. F., 15 Clarence Road, Southsea.

PHARMACIST requires sound business showing certified annual turnover upwards of £5,000 and net profits of not less than £1,000; preference given to centrally-situated business in market town, but this is not essential. Full particulars in confidence to 59/38, Office of this Paper.

PPRIVATE Pharmacist requires good-class, well-established business; turnover £2,500 and upwards; South preferred, but any district considered where there is scope; cash transaction and ready to take over, or would wait reasonable time. Apply with full particulars. Turnover, Rent, Rates, Lease, Staff, etc., 60/30, Office of this Paper.

YOUNG M.P.S. requires Pharmacy in prosperous town or county market town, about 100,000 population; central England or thereabouts; must be in shopping centre; property included; living accommodation and low overheads preferred; present owner retiring to employ purchaser for about four weeks prior to settlement; privacy assured. P.C.B. 269/14, Office of this Paper.

PREMISES TO LET

OXFORD STREET (Close to).—Spacious ground floor; frontage about 24 ft., depth about 60 ft.; rear entrance; suit Chemist; low inclusive rental from sound tenants. Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele. Mayfair 7666.

FINE opening for Chemist opposite station at Seven Kings, Ilford, Essex; very moderate rents; with and without living accommodation. Apply P. E. Brand, Ltd., 345 Eastern Avenue, Ilford, Essex.

AGENCIES

AGENTS Required, already calling on Chemists, Hairdressers and Stores, to handle well-advertised line. Apply in writing, giving full details of experience, territory, number of open accounts, etc., EBE Products, Ltd., 11 Diana Place, Euston Road, N.W.1.

Manufacturers of established
**MEDICAL, DENTAL AND PHARMACEUTICAL
PREPARATIONS**
interested in

- (1) Increasing profits by amalgamation or working arrangement with manufacturers of above lines.
 - (2) Disposing of their business to manufacturers able to derive maximum return from their business, and therefore able to pay fair value,
- are invited to communicate with advertisers, who have ample funds, laboratories, warehouse space and distributing organisation. Write Box A.232, Willings, 133 Moorgate, E.C.2.

QUALIFIED Chemist, working Kent and Surrey, desires speciality lines in Tablet Bottles, Pill Tubes, Drop Bottles, etc. Full particulars to 60/12, Office of this Paper.

SOLE AGENCY or exclusive manufacturing rights against reasonable OUTRIGHT sum are given for the new aromatic preparation "MENSICUR" (to be used EXTERNALLY) for the relief of functional menstrual pains. Recommended by "Medical Review," Vienna. AMAZING SUCCESS. Apply to R. Kessler & Co., Basle 8, Switzerland.

TO OWNERS OF PROPRIETARIES.

AN up-to-date, progressive house of Manufacturing Chemists, with a large, fully-equipped factory in London, invites enquiries from principals for the MANUFACTURE, PACKING AND DISTRIBUTION of Proprietary Pharmaceutical Preparations. Manufacturing Dept., 64 Hatton Garden, London, E.C.1.

SALE BY AUCTION

Removed from Brixton.

2 to 5 LITTLE BRITAIN (close to G.P.O.), CITY.
CHEMIST'S SHOP FITTINGS, Showcases, Mirrors,
Office Furniture, Safes, Typewriters.

B. NORMAN & SON

will sell by auction, Wednesday, January 19, at 12 noon. Catalogues on application. Tel. NAT.: 6463.

PARTNERSHIPS

LADY Chemist, with own shop, 5 years, requires Qualified Lady partner to share larger business in or near London. 58/21, Office of this Paper.

PARTNERSHIP in Manufacturing Chemists available; £1,000 required for further extending entirely new, very efficient, Medical Preparations. 54/4, Office of this Paper.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

CAMBRIDGE.—Unqualified Junior Assistant required for University Pharmacy end of January; no N.H.I. Dispensing. Please send full particulars, photo if possible, salary required, stating when free, to Mr. Harding, J. J. Thomas (Cambridge), Ltd., 34 Trinity Street, Cambridge.

HOVE.—Lady Assistant wanted for semi-working-class district; quick, accurate and reliable Dispenser; comfortable post for suitable applicant. Please state age, height, experience, when disengaged, etc., photo if possible; £3 per week. 59/35, Office of this Paper.

**JERSEY DISPENSARY AND INFIRMARY,
ST. SAVIOUR'S ROAD,
JERSEY, C.I.**

Appointment of Dispenser-Almoner.

APPPLICATIONS will be received by the undersigned for the appointment of a Lady Dispenser-Almoner to the above Institution. Applicants are to be fully Qualified Dispensers holding a recognised dispensing diploma. Some experience of office work will be an advantage. The successful applicant will be required to commence duties on or about February 1, 1938, and will be required to serve a probationary period of six months. The commencing salary will be at the rate of £120 per annum, payable monthly, with annual increases of £6 to a maximum of £150. Fourteen days' annual leave will be granted after each year's service on full pay. Meals will be supplied during hours of duty. Applicants are required to furnish to the undersigned by noon on January 22, 1938, full details of their qualifications and experience, age, nationality, whether married or single, two copies of recent testimonials and a medical certificate of health. G. F. Lanning, Hon. Secretary.

LONDON.—Unqualified Assistant wanted (age about 25 years), with knowledge of proprietary medicines and Toilet goods, for Drug Department, Post Order Room. Write, stating full particulars, experience, Box 158, Sells Advertising, Brettenham House, Strand, W.C.2.

LONDON, N.10.—Unqualified Assistant, Improver or Junior preferred, for a good-class family business; good opportunity to gain good experience in Dispensing and Counter. Full particulars to T. J. Morris, M.P.S., F.S.M.C., 20 St. James' Parade, Muswell Hill.

LONDON, W.1.—Qualified Assistant required, of smart appearance and a good Counterman. State age, experience and salary required to 59/39, Office of this Paper.

PORTSMOUTH.—Unqualified Assistant (male) required to manage Drug Store in Portsmouth; working-class business. Apply, giving details, salary expected, etc., 59/37, Office of this Paper.

SOUTH-EAST KENT.—Wanted, February 28, experienced Qualified Lady for busy Drug Store; working-class trade; £3; no N.H.I.; state age. 57/9, Office of this Paper.

SOUTH LONDON.—Qualified Chemist, male (aged 25 to 30), required; middle-class business; N.H.I. State age and salary required. 58/9, Office of this Paper.

SURREY.—Assistant, Unqualified; experienced; permanency; required immediately for high-class business. 59/7, Office of this Paper.

SURREY.—Junior Assistant, young, wanted at once; good-class experience essential. Full particulars and salary required to Ashworth, Church Street, Weybridge.

A.A.A.—YOUNG Assistant, with fair experience (male or female); Dispensing and General Routine. Apply, 'Phone Edgware 4545, or write L. Garfield, 5 North Parade, Mollison Way, Edgware.

ASSISTANT, English or Scot, Unqualified, of unimpeachable character; must be expert Window-dresser, possessed of courteous manner, and careful Dispenser; permanency to right man; those having these necessary attributes apply, stating usual particulars and salary required, to Blanch, Chemist, Coleford, Glos.

ASSISTANT, Unqualified (age 25 to 30); single; accustomed to high-class trade. State experience and salary required, Balkwill & Co., 106 Old Town Street, Plymouth.

JUNIOR Assistant wanted immediately for good-class business in Home Counties; permanency for right applicant; lady preferred; half hour from London Bridge. Give full particulars experience, age and salary required in first letter, 59/12, Office of this Paper.

JUNIOR Assistant required in high-class Dispensing business for Counter and some Dispensing; either sex. Full particulars of experience, age and wages expected, 59/19, Office of this Paper.

JUNIOR, for good-class country business; short hours; must have had good Dispensing experience and have passed Preliminary Scientific examination. Full particulars, with photo, to Meynell, Tenterden.

JUNIOR Male Assistant, live in; good Dispenser, Window-dresser, etc. Apply, with full particulars, reference, age, height, salary required and photo, to Exors., T. Evans, 114 Upper Richmond Road, Putney, S.W.15.

JUNIOR Unqualified Assistant (male) required for high-class Dispensing Business near London. Full particulars, age, height, experience, and salary expected. 318/576, Office of this Paper.

JUNIOR Unqualified Assistant required for Lancashire; must have had good Dispensing training and be capable on the Counter; excellent opportunity for further training and permanent appointment to right man. Write, 318/575, Office of this Paper.

LADY Assistant required for Notting Hill Gate district; 45s. for 5-day week; must be able to dispense and serve at counter. 59/52, Office of this Paper.

MR. R. WOOLBY BROOKE has a vacancy for a tall, unmarried, Qualified Assistant (male). Applicants, preferably with London experience, are asked to send particulars of themselves by post to "B.," 38 Gloucester Road, S.W.7.

QUALIFIED Assistant required for good-class business. State age, experience and salary required. Ruston, Pharmaceutical Chemist, Bletchley, Bucks.

QUALIFIED Assistant wanted at once; quick and accurate Dispenser; good appearance and used to good-class Counter trade. Full particulars as to experience, age and salary required, with photo if possible, Hall, Chemist, Pinner.

QUALIFIED Junior Assistant wanted for busy Family Dispensing Business, London, W.5. Apply 59/27, Office of this Paper.

QUALIFIED Lady, experienced Saleswoman and Window-dresser; London. Apply "B.," 318/573, Office of this Paper.

QUALIFIED Lady required, used to middle-class trade, brisk N.H.I., Counter and Window-dressing; good Prescriber an advantage. Write, with full particulars, to J. W. Cole & Son, Ltd., 248 Infirmary Road, Sheffield, 6.

QUALIFIED Lady, young; West End Pharmacy; hours 10 a.m. 6.30 p.m. 58/1, Office of this Paper.

QUALIFIED Manager for country Pharmacy to work with widow of deceased Chemist; an Optical Qualification would be an advantage; a good square deal will be given to a man who will take a keen interest in the business. Write in first instance R. W. Wardman, Chemist, Sudbury, Suffolk.

QUALIFIED required, morning and evenings, London, S.E. district. Reply by letter only, stating salary, etc., to C. M. P., 83 New Street, Kennington, S.E.17.

PHOTOGRAPHS, TESTIMONIALS, &c.

'When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

RELIABLE Unqualified Assistant required at once; must be quick and reliable Dispenser and used to brisk middle-class business; good Stock-keeper and general all-round man. Full particulars and salary required to Ernest H. Hague, Ltd., 126 Albert Road, Widnes.

UNQUALIFIED Assistant (male) required for good-class Dispensing and Counter business. Apply, stating age, particulars of experience, salary required and when disengaged, to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

UNQUALIFIED Assistant, Young Lady, for Toilet and Beauty Section; good Window-dresser essential; London. Apply "A." 518/572, Office of this Paper.

UNQUALIFIED Junior Assistant for good-class Dispensing and Photographic business in pleasant Sussex town. Send full particulars in first letter, photo if possible. Tavener, Broadway, Crowborough.

UNQUALIFIED, reliable Dispenser and Counter hand; usual particulars, references, salary, height, photo and when disengaged. Neville, 74 Cowley Road, Oxford.

UNQUALIFIED.—Vacancy occurring about February 21 for young lady Assistant; Dispensing experience; accustomed sale of Toilet Preparations and Photographic; quick and accurate worker; no Sunday or half-holiday duty. Full particulars, salary, age, experience, Parkers, Ltd., Chemists, Hailsham (near Eastbourne).

WANTED, early in January, Junior Assistant for good-class Dispensing business; just finished apprenticeship would suit. Apply, Harmer, South Street, Eastbourne.

WANTED, Qualified Assistant (male) required shortly. Write, giving full particulars and salary required, to A. W. Morgan & Co., Ltd., Bedford.

WANTED, Unqualified Chemist for middle and high-class pharmacy. Please state age, salary, etc., 59/36, Office of this Paper.

WANTED, young energetic Unqualified Assistant for Dispensing and Counter Work, in middle-class business N.E. London. Full particulars in first letter, 59/16, Office of this Paper.

YOUNG Lady Assistant required in North London Pharmacy; must be a good Dispenser. Please state age, height, experience and salary required to 59/4, Office of this Paper.

YOUNG Qualified man wanted immediately, to take charge of small branch Pharmacy; recent references and usual particulars, salary required, and earliest date of commencing, to Latham, Chemist, Shirebrook, Notts.

YOUNG Unqualified Assistant required immediately; smart Counterman and good Dispenser. State age, experience, salary, etc., photo. Apply Prossers, Ltd., Chemists, 5 Bolton Road, Walkden, near Manchester.

YOUNG Unqualified male or female Assistant required immediately until September; must be reliable Dispenser and used to brisk middle-class business. Full particulars and salary required to T. & E. Hutchings, Ltd., 60 Nunhead Lane, London, S.E.15.

WHOLESALE

REPRESENTATIVES

for (1) Midlands, (2) Yorkshire, (3) South Coast

with a good connexion throughout these territories with chemists, hairdressers, and stores, are wanted by an established selling organisation carrying several good selling lines. Generous salary, commission and expenses paid to the right man, who should be young, active, and preferably a car owner.

Apply Box 318/569, Office of this Paper

IMPORTANT Pharmaceutical House, marketing ethical specialties, requires the services of Pharmacist as Medical Representative. Apply in confidence, giving full particulars of qualifications, experience, salary expected, etc., in the first instance, to 318/579, Office of this Paper.

REPRESENTATIVES on generous commission terms, required by well-established firm marketing a new Cosmetic; a great success; large areas allocated and very good prospects to right type of men; car an advantage. State in confidence territory covered and present lines carried. 59/9, Office of this Paper.

ALL MANAGERS AND ASSISTANTS SHOULD JOIN AT ONCE

The National Assoc. of Chemists' Assistants

INCORPORATED IN THE CHEMICAL WORKERS' UNION

BENEFITS: Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec., 149 Newington Causeway, London, S.E.1

REPRESENTATIVES required immediately; nationally advertised line; salary and commission. Zernopad, Ltd., 4 Queen Victoria Street, E.C.4.

STAR Salesmen (all districts), with connexion, required by Chemical & General Distributors, Ltd., to sell nationally advertised lines—A.D.C. Vitamin Beans, Waxil Depilatory Plaster, Ignes Beauty Products, etc.; men carrying other lines will be considered. Send particulars of past experience, remuneration required, etc., to Sales Manager, Chemical & General Distributors, Ltd., 80-86 Regent Street, London, W.1.

SURGICAL Instruments, Equipment and Sundries Representatives, to call Hospitals, Doctors, etc.; only experienced men with personality; position commands good salary. Write, with full details, "G." Medical Supply Association, 167 Gray's Inn Road, W.C.1.

TYPIST required for Invoice Department. Apply, C. R. Harker, Stagg & Morgan, Ltd., Emmott Street, London, E.1.

VERNON POWELL, LTD., require three young experienced Representatives for London; sound connexion essential; liberal terms offered. Apply by letter only to 4-5 Love Lane, Wood Street, E.C.2.

COLONIAL, INDIAN AND FOREIGN

QUALIFIED Assistant required in September by E. M. de Souza & Co., Post Box 134, Rangoon, Burma; preference given to Scots with a little experience of Wholesale and office routine; commencing salary approximately £38 per month; selected applicants interviewed in Britain in July. Further particulars from our Buying Agents, The British Drug Houses, Ltd., London. Applications, with copies of references and photo, direct to Rangoon.

SITUATIONS WANTED

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—Manager, Qualified (35), desires post in London; West End or City preferred; smart appearance; good personality; first-class Salesman and Display; all-round City and West End experience; Toilets, Cosmetics, Arden, Cyclax, etc., also belts, Trusses and Surgical; interview essential; free February 4. Chemist, 171 Park Road, Worthing, Sussex.

A.—QUALIFIED (29), good experience, thoroughly reliable, seeks position as Manager, with or without living accommodation; S.E. England preferred. Barker, 29 Pantom Street, Cambridge.

A.—UNQUALIFIED Assistant, Gentleman (24), City and West End experience; highest references; disengaged; London or suburbs only; interview. P.C.B. 269/13, Office of this Paper.

A QUALIFIED Chemist, thoroughly experienced; free; highest references. 66 St. Anns Hill, S.W.18.

A SSISTANT, Qualified (23) desires post, Locum or permanency; good Dispensing and Counter experience; references available; free immediately. T. N. H., 29 Matheson Road, W.10.

A SSISTANT, Unqualified (30), married; high-class Counter and Dispensing; experienced all branches; desires post, private or stores; London or Midland. C., 26 Russell Terrace, Leamington Spa.

A SSISTANT (28), experienced high-class Family and West End Business; expert Dispenser. C. H. J. Bishop, 41 Hillcross Avenue, Morden, Surrey.

A SSISTANT (23); Part I, trained for Part II; Dispensing, Counter, Photographic experience; keen, reliable, excellent reference; disengaged; London or South preferred. 19 Melrose Place, Clifton, Bristol.

BLACKPOOL DISTRICT.—Keen, capable Qualified (28) requires position in or near Blackpool; West End experience; free one month. 59/26, Office of this Paper.

CHEMIST desires post Manager, view succession after agreed period; highest references; £250 available; South Wales, Somersetshire, Gloucestershire, Herefordshire. 58/19, Office of this Paper.

CHEMIST, experienced, recommended; excellent Prescriber; Locum or permanency; disengaged; London or provinces, anywhere. Chemist, 36 Buckley Road, Brondesbury, London, N.W.6.

EVENING Work.—Pharmacist would appreciate engagements for evening duties; excellent experience and references; now studying medicine. I. J. Williams, 18 Christchurch Avenue, Kenton, Middlesex.

EXPERIENCED West End, Qualified (31), Manager or Senior; capable, trustworthy, good appearance; London only. "R.", 12 Monmouth Road, W.2.

However you may be situated now, we venture to prophesy that many situations will arise during 1938 when you will want *The Chemist and Druggist* and *THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK*. If you are not already a subscriber send your order to-day. Twenty shillings will secure *THE DIARY* for 1938 and the C. & D. every week for a year. Remittance later.

LADY Dispenser (Hall), desires post; experienced; book-keeping; good references. C., 8 Cashbury Terrace, Southend-on-Sea.

LADY (Hall), experienced all branches of the work, requires post. 59/33, Office of this Paper.

LATE or All-Night Duty; Qualified; excellent West End experience and references. 59/28, Office of this Paper.

LOCUM, disengaged; thoroughly competent; highest credentials; reasonable terms; any period or distance. Chemicus, 56 Rudloe Road, Balham, S.W.12.

MANAGER or Locum, Qualified; own car; any distance; moderate. Apply Chemist, 43 Westminster Gardens, Barking, Essex.

M.P.S. Desires position, permanency or Locum, London or suburbs; excellent experience; free now. M.P.S., 3 Glazebury Road, W.14.

M.P.S., EXCELLENT experience; best West End, Wholesale, Hospital and large East End Dispensing; comfortable position of most consideration. 59/48, Office of this Paper.

M.P.S., M.R.C.S., working for L.R.C.P., ex-proprietor, would undertake suitable medical or pharmaceutical work, temporary or part-time. "Pharmex," 24A Carlton Vale, N.W.6. Phone: Maida Vale 8520.

M.P.S., YOUNG, Public School, shorthand, typing, wants work; anxious to gain experience; London preferred, but provinces not objected to. W. L. A. Woodhurst, Sandylodge Way, Northwood, Middlesex.

M.P.S. (38), tall; varied experience; middle- and working-class trade; 9 years Branch Manager; conscientious; highest integrity; moderate salary; married; disengaged. 60/6, Office of this Paper.

PART-TIME Unqualified Assistant (tall); week-ends; Window-dressing; 6 years' experience; disengaged. I. M. J., 4 Devonshire Street, E.1.

PHARMACIST (age 26) desires position as Manager; 4 years' Locum experience; excellent references. "Chemist," 11 Grenfell Terrace, Bradford.

PHARMACIST, tall, healthy, widely experienced Dispensing, Counter, Photography, Book-keeping; permanency or locum. 34 Santos Road, S.W.18. Putney 4946.

QUALIFIED Chemist, elderly, active, reliable, disengaged, seeks any suitable employment; terms moderate. "Chemist," 39 Birchfield Road, Birmingham.

QUALIFIED Dispenser, young, requires post with Doctor or Chemist in London; Dispensing experience obtained in high-class Pharmacy. 55/2, Office of this Paper.

QUALIFIED Gentleman (25) desires position in high-class business; thoroughly experienced Pharmacy, Medical, Photography; first-class Salesman; excellent references. 58/10, Office of this Paper.

QUALIFIED (male), young; all-round experience. Please write for full particulars, Johnston, 1 Cotham Vale, Bristol, 6.

QUALIFIED Manager, fully experienced, seeks permanency; excellent references; London or near preferred; free. Snow, "Brockedon," Lovibond's Avenue, Orpington, Kent.

QUALIFIED (25) seeks change; good-class, all-round experience; welcome opportunity to study Optics, or within reach of tuition centre. 59/2, Office of this Paper.

QUALIFIED (23½), tall, good appearance, desires change; Manager or Assistant; Yorkshire, West Riding or Lancashire; 7½ years' experience, including 2½ London; reliable Dispenser, Counterman and Window-dresser; knowledge of Photography. 58/20, Office of this Paper.

QUALIFIED (38) tall, married, with all-round experience, including 12 years' management; seeks permanency as Branch Manager; free January 31. Benson, 190A Alexandra Avenue, South Harrow, Middlesex.

QUALIFIED (28); 12 years' Retail experience in West End, City and Suburbs; requires post in City or N.W. London area; free one month. 10 Rose Glen, N.W.9.

RECENTLY Qualified Lady (22), desires position in Hospital, Laboratory or high-class business; good appearance and education; excellent Dispenser. Miss E. Anthony, 13 Wandsworth Bridge Road, Fulham, S.W.6.

SOUTH DEVON.—Qualified (24), single; Square-trained, apprenticed Quant, Torquay, desires position; 8 years' all-round experience; free shortly; Locums (anywhere) considered. "Chemist," "Kamuli," Reddenhill Road, Torquay.

SCOT (29) Unqualified, desires change; active and of good appearance; 5 years' West End experience; 3 years as Manager; good experience in Counter Dispensing, etc. 59/3, Office of this Paper.

UNQUALIFIED (29) seeks post; all-round experience (9 years); part-time or otherwise; S.E. district or suburbs required. 59/15, Office of this Paper.

WHOLESALE

A.A.A.—EIGHTEEN years' experience, Office, Orders, etc., Manufacturing Chemists, present herth 12 years, seeks post progressive character (age 34 years); sound knowledge of trade. 50/4, Office of this Paper.

ADVERTISER, having a solid connexion with Chemists in the Midlands, doing very large turnover, built up during the past 20 years, is desirous of making a change to nationally known firm; minimum remuneration £1,000 per annum, with opportunity to increase. 318/574, Office of this Paper.

ADVERTISER (Jewish), aged 25; good education and appearance; having relinquished position as Traveller with well-known Perfumery House, now seeks permanent salaried career in company of repute; residing Cardiff, but willing to go anywhere; varied commercial experience; has called upon Chemists, Hair-dressers and Stores in South Wales, West of England, Midlands, etc.; known to Wholesale and Retail buyers; own car; fidelity bond; excellent references. 58/17, Office of this Paper.

ADVERTISER (28) desires position as Assistant Sales Manager, with reputable House; alternatively, as Representative, with definite prospects leading to this position; 8 years' first-class sales record, London, Southern Counties and Midlands; sound experience of Scientific Sales Planning; good personality, well educated, keen and adaptable; highest credentials. 59/34, Office of this Paper.

AGED 32, married (16 years), City and Suburban Retail, desires post with Wholesale House; as Representative; own car; or inside, with responsibility and good prospects; disengaged. W. Hoare, 346 Gravelly Lane, Erdington, Birmingham.

DOCTOR, lately Qualified, desires Travelling, Salaried Position with reputable Manufacturing Chemists; good connexion with Medical Practitioners in London. P.C.B. 269/19, Office of this Paper.

ENERGETIC Man, with initiative; 20 years' experience Wholesale and Retail; Assistant to Manager; Packed Goods, Stock, Distributing, etc. 60/7, Office of this Paper.

FOREWOMAN seeks position in Factory; used to Controlling Female labour; experienced in Labelling, Wrapping, etc. 59/46, Office of this Paper.

GENTLEMAN (28) desires position with firm of repute as Representative (10 years' Retail experience); personality, good address and appearance, plus initiative; connexion Midlands; own car. 52/17, Office of this Paper.

KEEN Young Man (25), with extensive knowledge of Perfumery trade, seeks post as Assistant Manager in progressive Factory; capable taking control Organisation, Production and all Correspondence; first-class experience; entirely satisfactory references. 59/44, Office of this Paper.

LONDON Representation; well-known Gentleman; Retail Stores, etc.; own office if desired; personality. P.C.B. 269/21, Office of this Paper.

LONDON.—Young, Qualified (25), Retail Manager, seeks Wholesale or Manufacturing Post; keen, adaptable; 9 years' experience of the trade; knowledge Physiology, Therapeutics, Business methods. Further particulars or interview. 59/11, Office of this Paper.

MIDLAND AND EASTERN COUNTIES.—Traveller having exceptionally good connexion and unimpeachable credentials seeks change; thorough knowledge all branches. 60/17, Office of this Paper.

MIDLAND Traveller (29); 1,500 live accounts Chemists, Hairdressers, Co-ops., Stores, etc.; own car; sound references; seeks appointment in Toilet Requisite or Allied Trade. 60/3, Office of this Paper.

PHARMACIST seeks position as Representative or Medical Propaganda; thoroughly experienced. "Pharmacist," 23 Old Manor Drive, Isleworth, Middlesex.

QUALIFIED (male), young; all-round experience. Please write for full particulars, Johnston, 1 Cotham Vale, Bristol, 6.

REPRESENTATIVE, whole or part, personality and ability; well-known Retail and Stores; London agency entertained. P.C.B. 269/22, Office of this Paper.

REPRESENTATIVE, young, energetic, with live connexion in Middlesex, desires change; thorough knowledge of Drug trade; car driver. 189 Elsa Road, Welling, Kent.

REPRESENTATIVE (29), with connexion in North Wales and Shropshire with Chemists and Doctors, desires post with reputable firm; free at short notice; car owner. 52/2, Office of this Paper.

REPRESENTATIVE (26), excellent connexion Chemists and Stores; Eastern and Home Counties; desires progressive position with firm of repute; own car; proved Sales record. R.E.P., 4 Gladstone Street, Leicester.

SCOT (29) Unqualified, seeks position as Representative or progressive post with established firm; experienced Retail Pharmacy and Surgical Instruments; good references and appearance. 57/7, Office of this Paper.

SCOTSMAN, well educated, young, but experienced Pharmacist; present Manager high-class West End business; wishes to occupy position in Scottish house requiring uncommon ability; very successful in present position. If you are interested, please write for full details of education and experience to 58/3, Office of this Paper.

NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

SPECIALITY SALESMAN-TRAVELLER (aged 37) seeks Representation for Proprietary or Exclusive Lines; excellent connexion Lancs and North Wales; commission only offers need not reply. 21 Alderson Road, Liverpool, 15.

SURGICAL Technician, calling Hospitals, etc., Sheffield area 10 years, desires another good agency; part expenses and commission or by arrangement. Spence, 8 Peveril Road, Sheffield 11.

TABLET and Pill Maker; 11 years' experience sugar, pearl and colour coating; London, North; able to take charge. 59/10, Office of this Paper.

TOILET Preparations and Cosmetics.—Advertiser with long experience Manufacturing large range of high-class products seeks position; good Organiser; used to complete Factory Control; lately with well-known West End Beauty Specialists. 60/23, Office of this Paper.

TRAVELLER (36), valuable personal connexion Chemists, Hairdressers, Stores, S.W. Counties, desires change; keen, energetic, trained Salesman of proved ability; I.S.M.A. Examinee; excellent references; car. 60/29, Office of this Paper.

WELL-KNOWN Representative, with sound Chemists' connexion covering South and West, seeks good additional advertised line, on part expenses and commission; consistent worker; own car; first-class references. 59/17, Office of this Paper.

WELL-KNOWN Representative, with sound Chemists' connexion in Eastern Counties, desires good selling line on commission; own car. 60/9, Office of this Paper.

YOUNG Pharmacist desires position as Representative or on inside staff; good connexion West Riding of Yorkshire; 9 years' Wholesale and retail experience; excellent references. 60/20, Office of this Paper.

FOR SALE

(Articles to the value of £5-£50.)

NATIONAL Cash Register; prints sales, gives total; must sell; reasonable. Write, W. Collett, 74 Craven Garden, Barking-side, Essex.

O'BRIEN CHECK TILL, 18 guineas; 12 months old; Rolls etc., 14 guineas or offer; Ensign 20 Roll Film Reflex, f4.5, leather case, cost £8 10s., £5 or offer. 60/10, Office of this Paper.

MISCELLANEOUS

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

ARE YOU TIRED OF POORLY-PAID ROUTINE WORK? If so, why not be a Salesman? We are regularly introducing our trained students to SALARIED POSTS as Outdoor Salesmen. You can qualify for this well-paid progressive work by spare-time home study, after which we will introduce you to SALARIED POSTS. Write for Free copy of 32-page book, "Salesmanship," to The WALLACE ATTWOOD COLLEGE, LTD., Dept. 84, Victoria House, Southampton Row, London, W.C.1.

COMPLETE PHARMACY in mahogany for £63 10s. Comprising: 12-ft. Drug Run, 8-ft. Wall Case, 6 ft. 6 in. Dispensing Screen with Showcase front, Mirror back and Plate-glass shelves; 10-ft. Counter with Showcase front; many other sets in Oak or Mahogany. New and Secondhand. New SHOP FRONTS of modern design. Estimates and Drawings FREE. Call or write: RUDDUCK & CO., 219 Old Street, London, E.C.1.

CHEMIST FITTINGS, Second-hand, in good condition; Glass Counters from £7; Mahogany Mirror-back Wall Case, 5 ft. long, £17 10s.; Mahogany Sponge Case, 3 ft. high by 2 ft. 6 in. wide, £3 10s.; Mahogany Drug Run, 32 Drawers, Cupboard and Lockers, 12 ft. long, £14 10s.; All-glass Counter Cases from 35s. Illustrated catalogue of new modern pharmacy fittings on request. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

FOR SALE.—Second-hand "Wilkinson" Geared Tablet Machine, single Punch, with ten sets Punches and Dies, £55; this machine is in excellent working condition and makes tablets up to 1½ in. diameter. 317/553, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods. Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along. **S. E. HACKETT, 23 July Road, Liverpool**

TRAVELLERS (in employment) wanted as Members of National Union Commercial Travellers, 24 Thavies Inn, Holborn Circus, E.C.1. Prospectus, attractive terms, post free. 10s. 6d. Annual Subscription covers Legal Aid, etc., Sickness, Unemployment and Death Benefit.

TREBLES for new and second-hand Fittings, Alterations, Shop Fronts, Glass Cases, Dispensing Screens, Counters, Drawers, Service Trays, Window Fittings, Wall Cases; send your requirements, 549 Lea Bridge Road, Leyton, London, E.10. Phone: LEY 2370.

WILL purchase any Fancy Goods left from Christmas, suitable for bazaars, etc.; send list or particulars. H. D., Ltd., Chemists, London, S.E.6.

£58 10s.—Almost new and in perfect condition, 10 ft. Drug Fitting, 10 ft. Glass-fronted Counter, 6 ft. Mirror-centre Dispensing Screen, 6 ft. Wall Showcase; all in solid mahogany and suitable for beginner or branch Pharmacy. Write or call, PHILIP JOSEPH & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Phone: Clerk. 4111/2. We also have in stock similar sets of light oak fittings. "Pharmacy Fitters for over a century."

£9—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

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2d. per word, minimum 2s. (Box No., 1s. extra.)

FOR DISPOSAL

(Articles up to the value of £5.)

EPHEDRINE Tablets, grn. $\frac{1}{2}$ B.P.; May, Baker; unopened. W. H. Harris, Chemist, Burrsville, Clacton-on-Sea.

STAMPED, guaranteed 5 grn. Aspirins; 10,000, £1; delivered London. Sanovia, Angell Road, Brixton.

WANTED

COPY of "The Microscopic Analysis of Foods and Drugs," Greenish; also "Anatomical Atlas of Vegetable Powders," Greenish and Collins. 318/570, Office of this Paper.

The names of those who do not already subscribe to the C. & D. and who wish to receive a copy of THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK for 1938. Twenty shillings will secure a copy and the C. & D. every week for a year. Remittance may follow later.

PRICE LISTS, TRADE CIRCULARS, SAMPLES, AND PRINTED MATTER

can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

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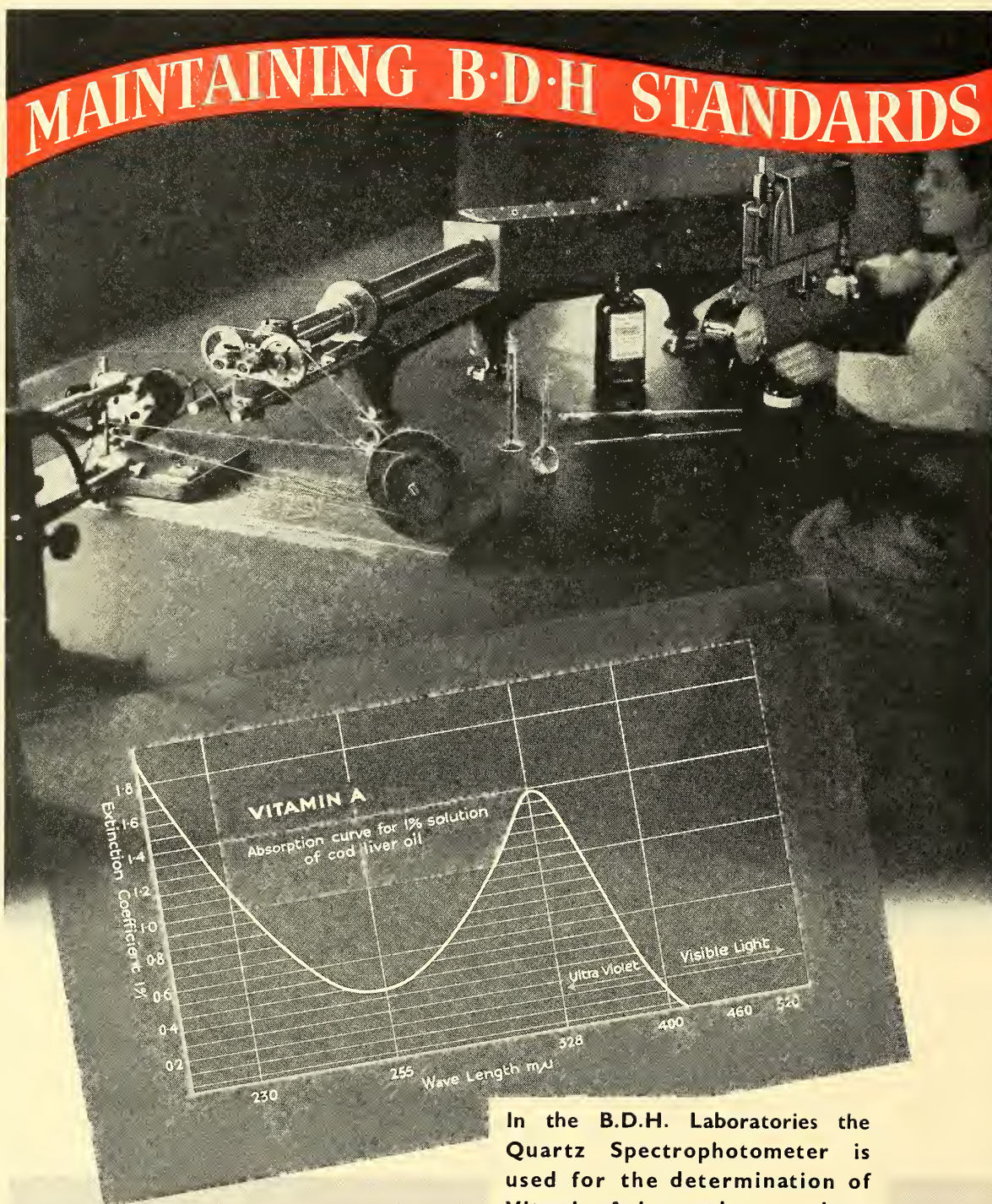
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